MICRO HiFi COMPONENT SYSTEM

RXD-M32

SERVICE MANUAL

(HM-332)

KENWOOD

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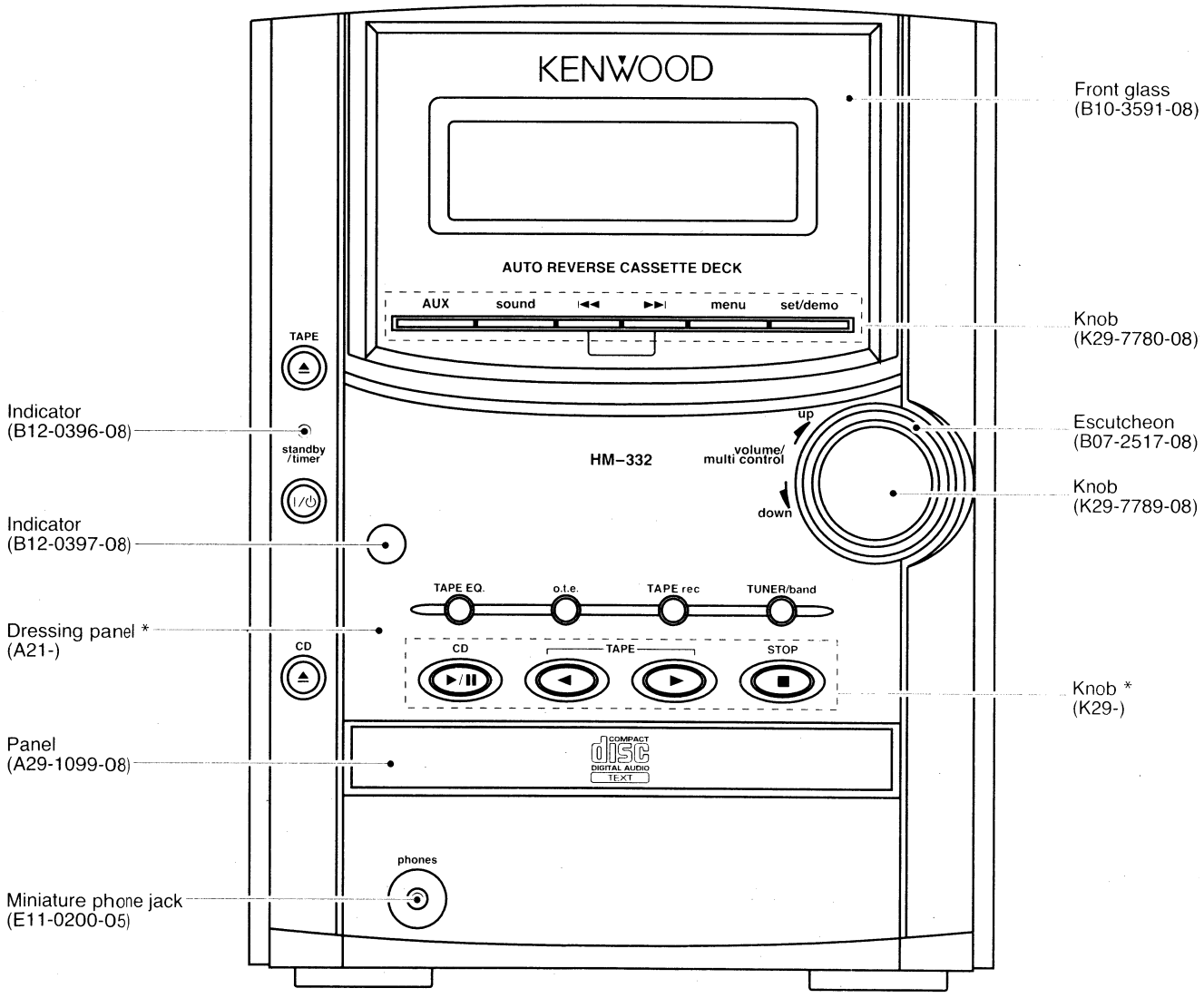
Although this service manual is described MD circuit description, it is no concern with RXD-M32(CD/CASSETTE receiver)



*** Refer to parts list on page39.**

In compliance with Federal Regulations, following are reproductions of labels on, or inside the product relating to laser product safety.

KENWOOD-Crop. certifies this equipment conforms to DHHS Regulations No. 21 DFR 1040. 10, Chapter 1, Subchapter J.

DANGER : Laser radiation when open and interlock defeated. AVOID DIRECT EXPOSURE TO BEAM

70%

RXD-M32

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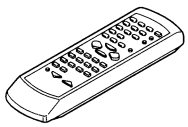
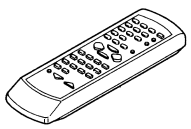
Accessories

Remote control unit (1)

Europe and U.K

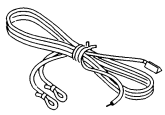


Other countries

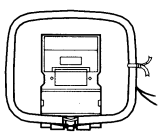


Battery cover(A09-1161-08)

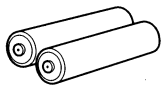
FM indoor antenna (1)
(T90-0861-05)



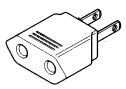
AM loop antenna (1)
(T90-0852-05)



Batteries (R6/AA) (2)



AC plug adaptor (1)
(E03-0115-05)



System Configuration

SYSTEM	MAIN UNIT	DESTINATION	SPEAKER	COLOR
HM-332-L	RXD-M32-L	ETHMX(L)	LS-M32-L	BLUE
HM-332E-L	RXD-M32E-L	E2(L)	LS-M32-L	BLUE
HM-332-S	RXD-M32-S	KPETHMX(S)	LS-M32-S	SILVER
HM-332E-S	RXD-M32E-S	E2(S)	LS-M32-S	SILVER
HM-332-Y	RXD-M32-Y	E1T1M1(Y)	LS-M32-Y	YELLOW
HM-332E-Y	RXD-M32E-Y	E3(Y)	LS-M32-Y	YELLOW
HM-332-H	RXD-M32-H	ETHMX(H)	LS-M32-H	GRAY
HM-332E-H	RXD-M32E-H	E2(H)	LS-M32-H	GRAY
HM-332-W	RXD-M32-W	E(W)	LS-M32-W	WHITE
HM-332E-W	RXD-M32E-W	E2(W)	LS-M32-W	WHITE
HM-332-LS	RXD-M32-LS	KP(LS)	LS-M32-LS	SKY BLUE

Remocon Configuration

REMOTE CONTROLLER	MODEL NAME	MODEL	DESTINATIONS	COLOR
A70-1380-08	RC-F0100	RXD-M32-L/LS	KPMX	BLUE
A70-1381-08	RC-F0100E	RXD-M32-L	HTEE2	BLUE
A70-1394-08	RC-F0100	RXD-M32-S	KPX	WHITE
A70-1395-08	RC-F0100	RXD-M32-S/H	MX	SILVER
A70-1396-08	RC-F0100E	RXD-M32-Y	T1E1E3	YELLOW
A70-1397-08	RC-F0100E	RXD-M32-W/S/H	HTEE2	SILVER
A70-1398-08	RC-F0100	RXD-M32-Y	M1	YELLOW -S

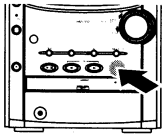
Cautions

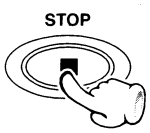
Operation to reset

The microcomputer may fall into malfunction (impossibility to operate, erroneous display, etc.) when the power cord is unplugged while unit is ON or due to an external factor. In this case, execute the following procedure to reset the microcomputer and return it to normal condition.

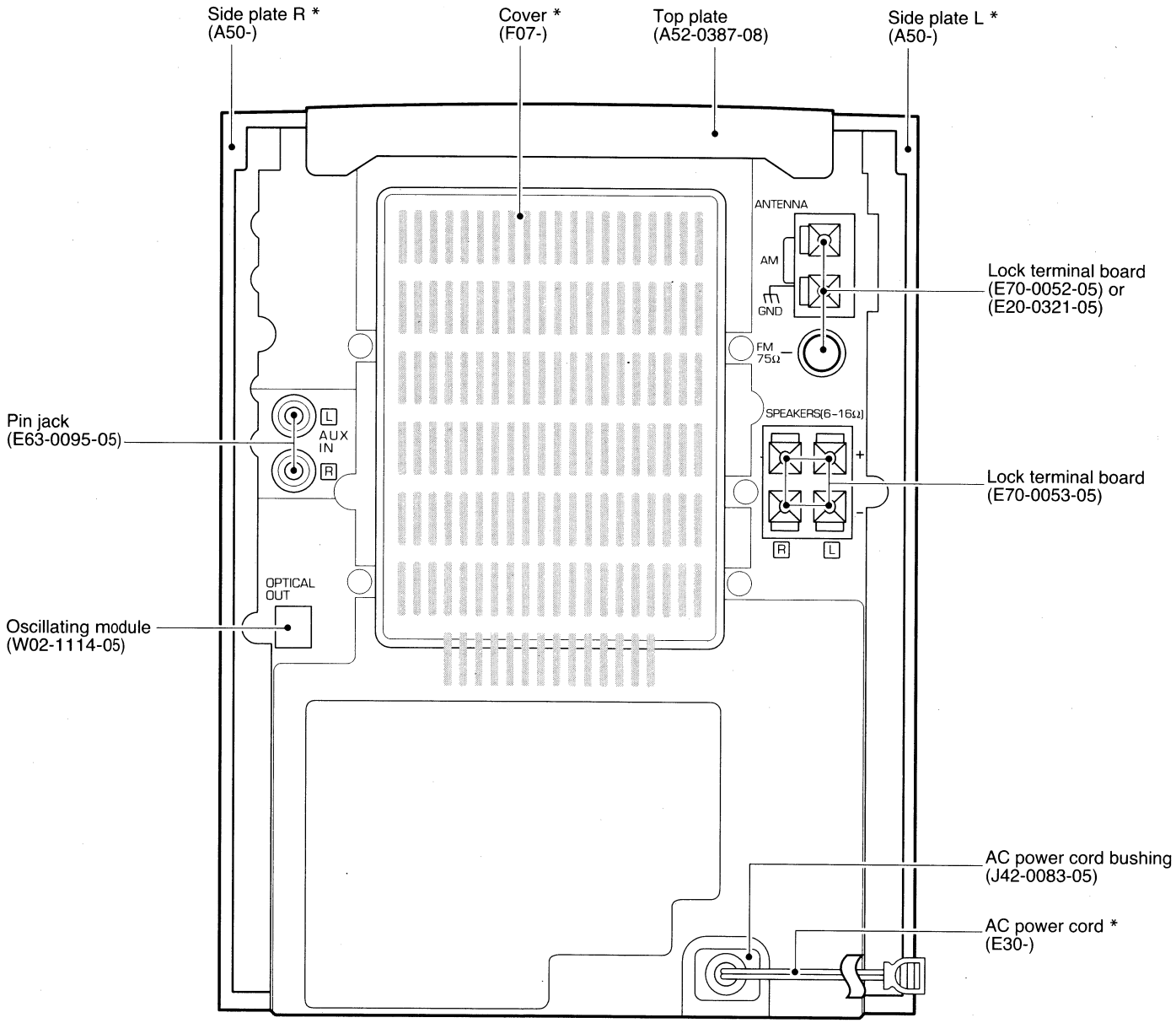
- Please note that resetting the microcomputer clears the contents stored in and it returns to condition when it left the factory.

Unplug the power cord from the power outlet then, while holding the set/demo key depressed, plug the power cord again.





EXTERNAL VIEW



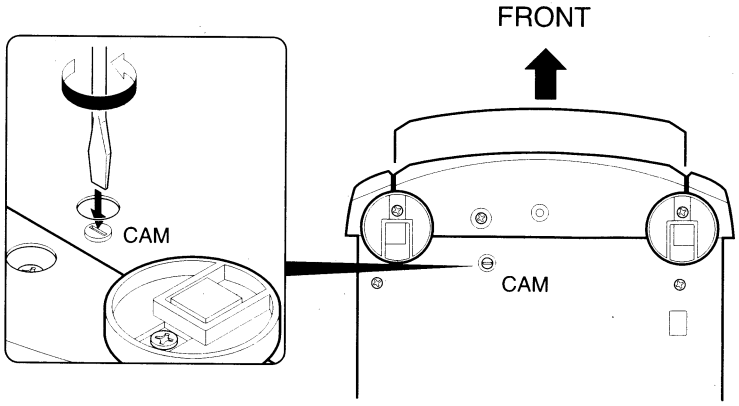
*** Refer to parts list on page39.**

DISASSEMBLY FOR REPAIR

How to open the tray if not comes out.

(1) From the bottom side of the CD mechanism, use a screw driver or the like to turn the cam slightly counterclockwise.

(2) Pull out the tray front wards by hand when the tray comes just out.



CIRCUIT DESCRIPTION

1. Initialization

1-1 Setting of the Initial Conditions

While pressing the (STOP) key, plug the AC cord to AC wall outlet.

1-2 Initializing Operation

- A microcomputer is initialized for start when the AC power is turned on while pressing the [STOP] key.
- At that time, CD,MD and CASSETTE mechanisms are also initialized.
- During the initial conditions, the display shows "INITIALIZE" and after that it will be returned to standby conditions.

1-3 Initial Items

	ITEMS	STATE	REMARKS
AMP	POWER	OFF	
	BACK LIGHT	High	
	VOLUME	10	
	BALANCE	CENTER	
	BASS	0	
	TREBLE	0	
	EX.BASS	ON	
	LOUDNESS	OFF	
	INPUT SEL	TUNER	
	INPUT LEVEL	0	
TUNER	BAND	FM	
	LAST freq.	LOWEST FREQ.	
	LAST Preset Channel	- -	
	AUTO/MONO	AUTO	
	Preset Channel	TEST FREQ.	
CLOCK TIMER	CLOCK	AM 12:00	E,T type 24H
	PROG ON (TIME)	AM 12:00	E,T type 24H
	PROG OFF (TIME)	AM 12:00	E,T type 24H
	SOURCE	TUNER	
	Preset Channel	1	
	EXE MODE	OFF	
	OTT MODE	OFF	AM 7:00
	ASP	OFF	
	SLEEP	OFF	
DECK	DIRECTION	FORWARD	
	RVS MODE	REVERSE	
	TAPE EQ	OFF	
	OPERATION MODE	STOP	
CD	PLAY MODE	TRACK	
	REPEAT	OFF	
	RANDOM	OFF	
	OPERATION MODE	STOP	
MD	PLAY MODE	TRACK	NONE
	REPEAT	OFF	NONE
	RANDOM	OFF	NONE
	OPERATION MODE	STOP	NONE

1-4 Mechanism Initialization

1-4-1 CD Mechanism

- If a mechanism error occurs, "C" is indicated on the display.

1-4-2 DECK mechanism

- When the initial condition becomes NG for the third time, decide the error.
- The error condition is displayed as "X" on the display.

1-4-3 MD mechanism

- If a mechanism error occurs, "M" is indicated on the display.
- MD disc is ejected from MD mechanism.

1-4-4 If mechanisms (CD/DECK/MD) error occur, the display is indicated as follows.

C⌋ M⌋ X⌋ S⌋ ERR⌋

1-4-5 TAPE door switch diagnosis

- If switches (open/close) error occur, "S" is indicated on the display.

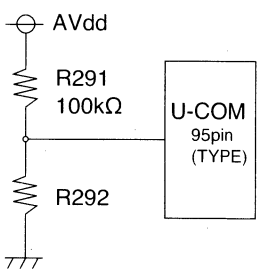
2. Destination List of Tuner

Set	Type	BAND	Receiving Frequency Range	Channel Space	IF	RF
J	J	FM	76.0MHz~90.0MHz	100kHz	-10.7MHz	25kHz
		AM	531kHz~1629kHz	9kHz	+450Khz	9kHz
K,P	K1	FM	87.5MHz~108.0MHz	100kHz	+10.7MHz	25kHz
		AM	530kHz~1700kHz	10kHz	+450kHz	10kHz
M,Y	K2	FM	87.5MHz~108.0MHz	100kHz	+10.7MHz	25kHz
		AM	530kHz~1610kHz	10kHz	+450kHz	10kHz
	E1	FM	87.5MHz~108.0MHz	50kHz	+10.7MHz	25kHz
		AM	531kHz~1602kHz	9kHz	+450kHz	9kHz
X	E1	FM	87.5MHz~108.0MHz	50kHz	+10.7MHz	25kHz
		AM	531kHz~1602kHz	9kHz	+450kHz	9kHz
E,T	E1 RDS	FM	87.5MHz~108.0MHz	50kHz	+10.7MHz	25kHz
		AM	531kHz~1602kHz	9kHz	+450kHz	9kHz

2-1 Discrimination Port for Destination

TYPE	R292 [Ω]	VOLTAGE [V]
J	910k	4.505
K	220k	3.438
M1	100k	2.500
X	47k	1.600
E,T	12k	0.536

AVdd = 5.0 [v]



3. Test Mode

3-1 Setting of the Test Mode

AUX MODE	AUX Key+AC-ON
TUNER MODE	TUNER (BAND) Key+AC-ON
TAPE MODE	TAPE PLAY Key+AC-ON
CD MODE	CD PLAY Key+AC-ON
MD UNIT MODE	MD PLAY key + AC ON (MD version only)
MD MECHA. MODE	MD REC key +AC-ON
SUB CLOCK OSC DIAGNOSIS	TAPE REC Key+AC-ON The oscillation diagnosis(existence of oscillation and measurement of period) of a sub clock is performed before the test mode is entered. If the diagnosis result is OK, the system enters the test mode. If the diagnosis result is NG, the oscillation of the sub clock is diagnosed again. If the result is OK, the system enters the test mode. If the diagnosis result is continuously NG 5 times,the system stops with "ERR1" and "ERR2" displayed.

CIRCUIT DESCRIPTION

3-2 Cancel of the test mode

By turning the power off, the system is initialized and the test mode is canceled.

3-3 Contents of the Test Mode

3-3-1 Tuner Test mode

KEY	DISPLAY	OPERATION
STOP	Normal indication	P --→ P10 → P20 → P30 → P40 →
MENU	Normal indication	AUTO · STEREO ↑ MANUAL · MONO ↓
MD REC TAPE REC	Normal indication	TUNING DOWN TUNING UP
SKIP DOWN SKIP UP	Normal indication	P. ch DOWN P. ch UP

3-3-2 Aux Test Mode

KEY	DISPLAY	OPERATION
SET/demo	Tone⌋ MAX⌋⌋⌋ Tone⌋ MAX⌋⌋⌋ Tone⌋ CENTER	CENTER → MAX → MIN →
SKIP UP	Normal indication	EX. BASS ON→LOUDNESS ON→SOUND MODE OFF

3-3-3 Deck Test Mode

KEY	DISPLAY	OPERATION
TAPE REC	Normal display	If the REC/ARM key is pressed, the system record for 4 seconds. Then, it rewinds to the REC starting position and plays back automatically. If the REC/ARM key is pressed, during the 4 seconds REC operation,the system records further for 4 seconds, then returns to the starting position of the first 4 seconds REC operation and plays back.

3-3-4 CD Test Mode

· The CD tray is opened automatically when the test mode is entered.

KEY	DISPLAY	OPERATION
CD-PLAY/PAUSE	05 ✻✻ : ✻✻ (✻✻ : ✻✻)	Tracking-servo on.
(Change the mode 05 and 03 alternately by the stop key.)	03 --:--	Tracking-servo off.
CD STOP	01 --:--	STOP
(Cyclically changed in the stop mode only.)	07 ✻✻ / ✻✻ 08 ✻✻ / ✻✻ 09 ✻✻ / ✻✻ 10 ✻✻ / ✻✻	Adjustment value/mean value TB value FB value TG value FG value FE value RF value TE value VC value
MENU	HI-SPEED NOR-SPEED	CD double speed operation CD normal speed operation
SKIP UP	Ex.01~02	CD track no. up.
TAPE REC		CD FF search. The pickup travels outward in the stop mode.
SKIP DOWN	Ex.02~01	CD track no. down.
MD REC		CD FB search. The pickup travels inward in the stop mode.

4. MD Test Mode

4-1 MD Unit Mode

Key	Display	Description
STOP	001—:—	Stop the MD operation.
SKIP UP	EX : 01-02	MD's track up operation.
SKIP DOWN	EX : 02-01	MD's track down operation.
SET/demo	ALL ERASE	Stop the MD operation. Start operation of all erase if disc is recordable.

CIRCUIT DESCRIPTION

4-2 MD SECTION

1. Preparation for Adjustment

You have to carry out the following test mode items if replace MD mechanism, pickup, head and pc board.

1-1 Procedure

1. Short-circuit #4(vss) and #7(wp) of IC1402(EEPROM).
2. Set the unit to test mode and carry out the every adjustment in test mode.
3. Stop the test mode by pressing the STOP key for 3 secs
4. Remove the short circuit of IC1402. Carry out reset start.

Repair(replace)	Temperature Standard Set	EEPROM set value check	Auto pre adj	Auto adj	Auto Fab adj	*EEPROM data write	** Operation check	
	TEMP	EEPROM_SET	AUTO_YOBI	AUTO_ADJ	AUTO_FAB	CANCEL TEST MODE	TEST-PLAY	TEST-REC
pickup	-	1	2	3	4	5	6	7
recording head	-	-	-	-	-	-	-	1
mechanism	-	1	2	3	4	5	6	7
pcb parts	1	2	3	4	5	6	7	8
MD microprocessor	-	1	-	-	-	2	3	4
MD LSI	-	-	1	2	3	4	5	6
RF IC	1	2	3	4	5	6	7	8
EEPROM	1	2	3	4	5	6	7	8

note: figures order of steps. - = no need.

* Result of EEPROM

OK_EEPROM	Write the data of setting values and AUTO-pre adjustment perfectly.
WR_EEPROM	Write the data of setting values perfectly however not write AUTO pre-adjustment. Carry out AUTO-pre adjustment and write data to EEPROM.
NG_EEPROM	Not write the data of setting values. Check the connection of MD microprocessor and EEPROM.

** Carry out the TEST-PLAY , TEST-REC and C1 error in test mode after AUTO_ADJ and AUTO_FAB.

1-2 Test disc

	Type	Test disc
1	High reflection disc	TGYS1 (SONY)
2	Low reflection disc	Recording minidisc
3	————	Head Adjusting transparent

2. Test Mode

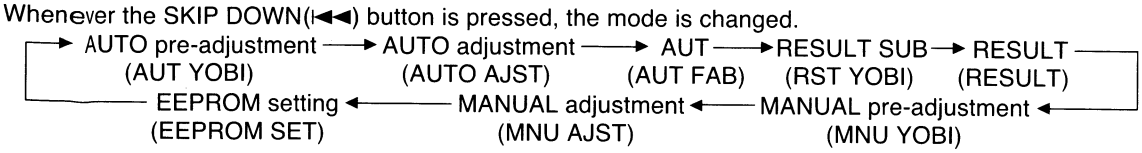
1. Holding down the MD rec button and turn the power on. (State Ⓐ)
2. To enter the test mode stop state(State Ⓑ), press the STOP button.
3. Load the playback disc 1(high reflection disc) or recording disc 2(low reflection disc).

Ⓐ MD TEST
↓ (Press STOP key)
Ⓑ tsm ○○○○e○○ ---- TEST MODE STOP STATE ○○represents version of MD microcomputer
↓ (MD DISC LOAD IN)
Ⓒ LOADING
↓
Ⓓ AUT YOBI

(When the STOP button is pressed in the Ⓓ state, the indication Ⓑ state is restored.
To restore Ⓓ state again, press the SKIP DOWN key once.

Entering the specific mode

Whenever the SKIP DOWN(|◀◀) button is pressed, the mode is changed.



CIRCUIT DESCRIPTION

• Canceling the test mode

When the POWER button is pressed, the test mode is canceled, and the POWER OFF state is set.

• Test Mode

1. AUTO pre-adjustment mode	• Automatic pre-adjustment is performed. (After adjustment the grating adjustment mode is set.) • The adjustment value is output with the aid of system controller interface.
2. AUTO adjustment mode	• Automatic adjustment is performed. • The adjustment value is output with the aid of system controller interface. • Continuous playback is performed. (Error rate indication, jump test)
3. AUTO FOCUS BIAS adjustment	• Focus bias adjustment is performed auto matically.
4. RESULT sub-mode	• The measurement value, set value and calculated value are indicated. • The set value is changed manually (in servo OFF state).
5. RESULT mode (final adjustment)	• The set value (after calculation) is indicated. • The set value is changed manually (in servo OFF state).
6. MANUAL pre-adjustment mode	• RF side manual adjustment is performed. • Focus and tracking signal ATT manual adjustment is performed. • Focus and tracking signal offset setting is performed.
7. MANUAL adjustment mode	• Focus and tracking signal ATT manual adjustment is performed.
8. EEPROM setting mode	• EEPROM setting
9. TEST-PLAY mode	• Continuous playback from the specified address is performed. • C1 error rate measurement.
10. TEST-REC mode	• Continuous recording from the specified address is performed. • Change of record laser output (servo gain is also changed according to laser output)
11. EJECT mode	• TEMP setting (of EEPROM setting)

1. AUTO pre-adjustment mode (Low reflection disc only)

Step No.	Setting Method	Remarks	Display
Step 1	Test mode STOP state		[t s m○○○○ e ○○]
Step 2	Press once the SKIP DOWN(I◀◀) button.	AUTO pre-adjustment menu	[_ AUT_ YOBI_ _ _]
Step 3	Press once the MD PLAY button. End of adjustment	The slide moves to the innermost periphery, and automatic pre-adjustment is started. • During automatic adjustment ✳✳✳ changes as follows. HAo→RFg→SAg→SBg→PTG→PCH→GTG→GCH→RCG→SEG→RFG→SAG→HAO→HEO→TCO→LAO If adjustment is OK, Step 4. If adjustment is NG, Step 5.	[✳✳✳ : _ _ _ _ _ _]
Step 4	Grating adjustment, adjustment value output Press once the MD STOP button.	 STEP 2	[_ C O M P L E T E _]
Step 5	Adjustment value output Press once the MD STOP button.	 STEP 2 AUTO pre-adjustment menu	[AUT YOBI]

• ✳✳✳ : Adjustment name, □□□□ : Address

2. AUTO adjustment mode

Step No.	Setting Method	Remarks	Display
Step 1	Test mode STOP state		[t s m○○○○ e ○○]
Step 2	Press the SKIP DOWN(I◀◀) button two times.	AUTO adjustment menu	[A U T O _ A J S T _]
Step 3	Press once the MD PLAY button. End of adjustment	The slide moves to the innermost periphery, and automatic adjustment is started. • In case of high reflection disc ✳✳✳ changes as follows. PEG→HAG •In case of low reflection disc ✳✳✳ changes as follows. PEG→LAG→GCG→GEG→LAG If adjustment is OK, Step 4. If adjustment is NG, Step 7.	[✳✳✳ : _ _ _ _ _ _] [C O M P L E T E]
Step 4	Adjustment value output Press the MD PLAY button. Press the MD STOP button.	 STEP 5 STEP 2	
Step 5	Continuous playback (groove section)		[a□□□□c○○○○]
Step 6	Press the MD STOP button.	STEP 2 AUTO adjustment menu	
Step 7	Adjustment value output Press the MD STOP button.	 STEP 2 AUTO adjustment menu	[C a n ' t _ A D J .]

• ✳✳✳ : Adjustment name, ○○ : Measurement value, □□□□ : Address

CIRCUIT DESCRIPTION

3. AUTO FAB adjusting mode

Step No.	Setting Method	Remarks	Display
Step 1	Test mode STOP state		[tsm○○○○e○○]
Step 2	Press the SKIP DOWN(⏮) button three times	AUTO FAB adjustment menu	[_AUT_FAB_ _]
Step 3	Press the MD PLAY button 1 time	End of automatic adj. → step 4 High reflection disc → step 5	[FAB□□_△△△△]
Step 4	Press the MD STOP button	AUTO FAB adjustment menu, step 2	[●●_△△△△○○○]
Step 5		Message output for 1 sec. → AUTO FAB. Adjustment menu(high reflection disc)	「PB_DISC_ _ _」

- ○○○○: measurement value □□: FAB value in measurement, △△△△: C1 error value in measurement, ●●: FAB value
- If the STOP button is pressed twice while the AUTO FAB adjustment is displayed, the state is change to the TEST mode STOP state.

4. RESULT sub-mode

Step No.	Setting Method	Remarks	Display
Step 1	Test mode STOP state		[t s m○○○○ e ○○]
Step 2	Press the SKIP DOWN(⏮) button 4 times.	RESULT sub-menu	[_ R S T _ Y O B I _]
Step 3	Press once the MD PLAY button.	Indication of measurement value	[R F G : _ _ _ _ _ ●]
Step 4	Press once the SKIP DOWN(⏮) button.	Indication of measurement value	[R C G : _ _ _ _ _ ●]
Step 5	Press once the SKIP DOWN(⏮) button.	Indication of measurement value	[P T G : _ _ _ _ _ ●]
Step 6	Press once the SKIP DOWN(⏮) button.	Indication of measurement value	[G T G : _ _ _ _ _ ●]
Step 7	Press once the SKIP DOWN(⏮) button.	Indication of measurement value	[P C H : _ _ _ _ ●●]
Step 8	Press once the SKIP DOWN(⏮) button.	Indication of measurement value	[G C H : _ _ _ _ ●●]
Step 9	Press once the SKIP DOWN(⏮) button.	Indication of measurement value	[S A G : _ _ _ ●●●]
Step 10	Press once the SKIP DOWN(⏮) button.	Indication of measurement value	[S B G : _ _ _ ●●●]
Step 11	Press once the SKIP DOWN(⏮) button.	Indication of measurement value	[S E G : _ _ _ ●●●]
Step 12	Press once the SKIP DOWN(⏮) button.	Indication of measurement value	[S F G : _ _ _ ●●●]
Step 13	Press once the SKIP DOWN(⏮) button.	Indication of measurement value	[H A O : ○○○ _ _ _]
Step 14	Press once the SKIP DOWN(⏮) button.	Indication of measurement value	[H B O : ○○○ _ _ _]
Step 15	Press once the SKIP DOWN(⏮) button.	Indication of measurement value	[H E O : ○○○ _ _ _]
Step 16	Press once the SKIP DOWN(⏮) button.	Indication of measurement value	[H F O : ○○○ _ _ _]
Step 17	Press once the SKIP DOWN(⏮) button.	Indication of measurement value	[L A O : ○○○ _ _ _]
Step 18	Press once the SKIP DOWN(⏮) button.	Indication of measurement value	[L B O : ○○○ _ _ _]
Step 19	Press once the SKIP DOWN(⏮) button.	Indication of measurement value	[L E O : ○○○ _ _ _]
Step 20	Press once the SKIP DOWN(⏮) button.	Indication of measurement value	[L F O : ○○○ _ _ _]
Step 21	Press once the SKIP DOWN(⏮) button.	Indication of measurement value	[T C O : _ ○○ _ _ _]
Step 22	Press once the SKIP DOWN(⏮) button.	Indication of adjustment error sequence No.	[Y O B : _ □□ _ _ _]
Step 23	Press once the SKIP DOWN(⏮) button.	Indication of adjustment status	[D I F : _ □□ _ _ _]
Step 24	Press once the SKIP DOWN(⏮) button.	Indication of pre-adjustment not completed (00)/completed (4B)	[A D J : _ □□ _ _ _]
Step 25	Press once the MD STOP button.	RESULT sub-menu state	[_ R S T _ Y O B I _]

- ○○ : Measurement value, ●● : Adjustment value, □□ : Other various informations
- When the (►►)button in remote controller is pressed while the setting is displayed, the setting increases, and a new setting is stored in RAM.
- When the (◄◄)button in remote controller is pressed while the setting is displayed, the setting increases, and a new setting is stored in RAM.
- When the (►►) or (◄◄)button in remote controller is pressed continously, steps is change by 100ms period.

CIRCUIT DESCRIPTION

Step No.	Setting Method	Remarks	Display
Step 1	Test mode STOP state		[t s m○○○○ e ○○]
Step 2	Press the SKIP DOWN(⏮) button 5 times.	RESULT menu	[_ R S T U L T _ _ _]
Step 3	Press once the MD PLAY button.	Indication of set value	[H A G : _ _ _ ●●●]
Step 4	Press once the SKIP DOWN(⏮) button.	Indication of set value	[H B G : _ _ _ ●●●]
Step 5	Press once the SKIP DOWN(⏮) button.	Indication of set value	[L A G : _ _ _ ●●●]
Step 6	Press once the SKIP DOWN(⏮) button.	Indication of set value	[L B G : _ _ _ ●●●]
Step 7	Press once the SKIP DOWN(⏮) button.	Indication of set value	[P E G : _ _ _ ●●●]
Step 8	Press once the SKIP DOWN(⏮) button.	Indication of set value	[P F G : _ _ _ ●●●]
Step 9	Press once the SKIP DOWN(⏮) button.	Indication of set value	[G E G : _ _ _ ●●●]
Step 10	Press once the SKIP DOWN(⏮) button.	Indication of set value	[G F G : _ _ _ ●●●]
Step 11	Press once the SKIP DOWN(⏮) button.	Indication of set value	[G C G : _ _ _ _ ●●]
Step 12	Press once the MD STOP button.	RESULT menu state	[_ R E S U L T _ _ _]

- ●● : Measurement value
- When the (▶▶)button in remote controller is pressed while the setting is displayed, the setting increases, and a new setting is stored in RAM.
- When the (◀◀)button in remote controller is pressed while the setting is displayed, the setting increases, and a new setting is stored in RAM.
- When the (▶▶) or (◀◀)button in remote controller is pressed continously, steps is change by 100ms period.

6. MANUAL auxiliary adjustment mode (only low reflection disc)

Step No.	Setting Method	Remarks	Display
Step 1	Test mode STOP state		[t s m○○○○ e ○○]
Step 2	Press the SKIP DOWN(⏮) button 6 times.	MANUAL auxiliary adjustment mode	[_ M N U _ Y O B I _]
Step 3	Press once the MD PLAY button.	Initial setting → Temperature measuring mode	[T M P : _ △△ _ _ _]
Step 4	Press once the SKIP DOWN(⏮) button.	Offset "0" setting → A signal offset tentative measurement	[H A o : △△△ _ _ _]
Step 5	Press once the SKIP DOWN(⏮) button.	B signal offset tentative measurement	[H B o : △△△ _ _ _]
Step 6	Press once the SKIP DOWN(⏮) button.	E signal offset tentative measurement	[H E o : △△△ _ _ _]
Step 7	Press once the SKIP DOWN(⏮) button.	F signal offset tentative measurement	[H F o : △△△ _ _ _]
Step 8	Press once the SKIP DOWN(⏮) button.	Offset tentative measurement → Laser ON	[L O N : _ _ _ _ _ _]
Step 9	Press once the SKIP DOWN(⏮) button.	Innermost periphery move → RF side FG rough adjustment	[R F g : △△△ _ _ ●]
Step 10	Press once the SKIP DOWN(⏮) button.	Focus ATT (A signal) tentative setting	[S A g : △△△○○○]
Step 11	Press once the SKIP DOWN(⏮) button.	Focus ATT (B signal) tentative setting	[S B g : △△△○○○]
Step 12	Press once the SKIP DOWN(⏮) button.	RF side pit section TG adjustment	[P T G : △△△ _ _ ●]
Step 13	Press once the SKIP DOWN(⏮) button.	Pit section COUT level setting	[P C H : △△△ _ ○○]
Step 14	Press once the SKIP DOWN(⏮) button.	Outer periphery move → RF side groove TG adjustment	[G T G : △△△ _ _ ●]
Step 15	Press once the SKIP DOWN(⏮) button.	Groove section COUT level setting	[G C H : △△△ _ ○○]
Step 16	Press once the SKIP DOWN(⏮) button.	RF side TCRS adjustment	[R C G : △△△ _ _ ●]
Step 17	Press once the SKIP DOWN(⏮) button.	Tracking ATT (E signal) setting	[S E G : △△△○○○]
Step 18	Press once the SKIP DOWN(⏮) button.	Tracking ATT (F signal) setting	[S F G : △△△○○○]
Step 19	Press once the SKIP DOWN(⏮) button.	Indication of tracking EFMIO measurement	[g M I : △△△ _ _ _]
Step 20	Press once the SKIP DOWN(⏮) button.	RF side pit section FG adjustment	[R F G : △△△ _ _ ●]
Step 21	Press once the SKIP DOWN(⏮) button.	Focus ATT (A signal) setting	[S A G : △△△○○○]
Step 22	Press once the SKIP DOWN(⏮) button.	Focus ATT (B signal) setting	[S B G : △△△○○○]
Step 23	Press once the SKIP DOWN(⏮) button.	Offset "0" setting → A signal offset measurement	[H A O : △△△ _ _ _]
Step 24	Press once the SKIP DOWN(⏮) button.	B signal offset measurement	[H B O : △△△ _ _ _]
Step 25	Press once the SKIP DOWN(⏮) button.	E signal offset measurement	[H E O : △△△ _ _ _]
Step 26	Press once the SKIP DOWN(⏮) button.	F signal offset measurement	[H F O : △△△ _ _ _]
Step 27	Press once the SKIP DOWN(⏮) button.	TCRS signal offset measurement	[T C O : △△△ _ _ _]
Step 28	Press once the SKIP DOWN(⏮) button.	A signal offset measurement	[L A O : △△△ _ _ _]
Step 29	Press once the SKIP DOWN(⏮) button.	B signal offset measurement	[L B O : △△△ _ _ _]
Step 30	Press once the SKIP DOWN(⏮) button.	E signal offset measurement	[L E O : △△△ _ _ _]
Step 31	Press once the SKIP DOWN(⏮) button.	F signal offset measurement	[L F O : △△△ _ _ _]
Step 32	Press once the MD STOP button.	MNU YOBI state	[_ M N U _ Y O B I _]

- △△△ : Measurement value, ● : Set value, ○○○ : Account value

CIRCUIT DESCRIPTION

- When the (►►)button in remote controller is pressed while the setting is displayed, the setting increases, and a new setting is stored in RAM.
- When the (◄◄)button in remote controller is pressed while the setting is displayed, the setting increases, and a new setting is stored in RAM.
- When the (►►) or (◄◄) button in remote controller is pressed continously, steps is change by 100ms period. If the measurement value is within the OK range, " ✳ " appears on the 8th character.

7. MANUAL adjustment mode

High reflection disc

Step No.	Setting Method	Remarks	Display
Step 1	Test mode STOP state		[t s m○○○○ e ○○]
Step 2	Press the SKIP DOWN(I◄◄) button 7 times.	MANUAL adjustment menu	[_ M N U _ A J S T _]
Step 3	Press once the MD PLAY button.	Initial setting → Temperature measuring mode	[T M P : _ △△ _ _ _]
Step 4	Press once the SKIP DOWN(I◄◄) button.	Laser ON	[L O N : _ _ _ _ _ _]
Step 5	Press once the SKIP DOWN(I◄◄) button.	Innermost periphery move → Tracking ATT (E signal) setting	[P E G : △△△○○○]
Step 6	Press once the SKIP DOWN(I◄◄) button.	Tracking ATT (F signal) setting	[P F G : △△△○○○]
Step 7	Press once the SKIP DOWN(I◄◄) button.	Indication of tracking EFMIO measurement	[P M I : △△△ _ _ _]
Step 8	Press once the SKIP DOWN(I◄◄) button.	Focus ATT (A signal) setting	[H A G : △△△○○○]
Step 9	Press once the SKIP DOWN(I◄◄) button.	Focus ATT (B signal) setting	[H B G : △△△○○○]

- If the MD STOP button is pressed twice while the MANUAL adjustment menu is displayed, the state is changed to the TEST mode STOP state.

Low reflection disc

Step No.	Setting Method	Remarks	Display
Step 1	Test mode STOP state		[t s m○○○○ e ○○]
Step 2	Press the SKIP DOWN(I◄◄) button 7 times.	MANUAL adjustment menu	[_ M N U _ A J S T _]
Step 3	Press once the MD PLAY button.	Initial setting → Temperature measuring mode	[T M P : _ △△ _ _ _]
Step 4	Press once the SKIP DOWN(I◄◄) button.	Laser ON	[L O N : _ _ _ _ _ _]
Step 5	Press once the SKIP DOWN(I◄◄) button.	Innermost periphery move → Tracking ATT (E signal) setting	[P E G : △△△○○○]
Step 6	Press once the SKIP DOWN(I◄◄) button.	Tracking ATT (F signal) setting	[P F G : △△△○○○]
Step 7	Press once the SKIP DOWN(I◄◄) button.	Indication of tracking EFMIO measurement (pit section)	[P M I : △△△ _ _ _]
Step 8	Press once the SKIP DOWN(I◄◄) button.	Focus ATT (A signal) setting	[L A g : △△△○○○]
Step 9	Press once the SKIP DOWN(I◄◄) button.	Focus ATT (B signal) setting	[L B g : △△△○○○]
Step 10	Press once the SKIP DOWN(I◄◄) button.	Outside periphery move → Track closs setting	[G C G : △△△○○○]
Step 11	Press once the SKIP DOWN(I◄◄) button.	Tracking ATT (E signal) setting	[G E G : △△△○○○]
Step 12	Press once the SKIP DOWN(I◄◄) button.	Tracking ATT (F signal) setting	[G F G : △△△○○○]
Step 13	Press once the SKIP DOWN(I◄◄) button.	Indication of tracking EFMIO measurement (groove section)	[G M I : △△△ _ _ _]
Step 14	Press once the SKIP DOWN(I◄◄) button.	Focus ATT (A signal) setting	[L A G : △△△○○○]
Step 15	Press once the SKIP DOWN(I◄◄) button.	Focus ATT (B signal) setting	[L B G : △△△○○○]

- If the MD STOP button is pressed twice while the MANUAL adjustment menu is displayed, the state is changed to the TEST mode STOP state.

8. TEST-PLAY mode

Step No.	Setting Method	Remarks	Display
Step 1	Test mode STOP state		[t s m○○○○ e ○○]
Step 2	Press once the SOUND button.		[T E S T _ P L A Y _] ↓ [a □□□□c ○○○○]
Step 3	Press the STOP button.		[T E S T _ P L A Y _]
Step 4	Press once the MD PLAY button.	During search the search output is set to "H", and it is returned to "L" when continuous playback is started.	
Step 5	Continuous playback (groove section)	(Address + C1 error indication)	
Step 6	Press once the MD STOP button.	TEST-PLAY menu	[T E S T _ P L A Y _]

- If the MD STOP button is pressed while the TEST-PLAY menu is displayed, TEST mode STOP state is set.
- If the MD PLAY button is pressed while the TEST-PLAY menu is displayed, continuous playback is started from the current pickup position.
- □□□□ : Adress, ○○○○ : Error late

CIRCUIT DESCRIPTION

9. TEST-REC mode

Step No.	Setting Method	Remarks	Display
Step 1	Test mode STOP state		[t s m○○○○ e ○○]
Step 2	Press the SOUND button twice.		[T E S T _ R E C _ _] ↓ [a □□□□ p w ▽▽]
Step 3	Press the STOP button.		[T E S T _ R E C _ _]
Step 4	Press once the MD PLAY button.	During search the search output is set to "H", and it is (returned on "L" when continuous playback is started.Address + C1 error indication) Continuous recording	[a □□□□ p w ▽▽]
Step 5	Press once the MD STOP button.	TEST-REC menu	[T E S T _ R E C _ _]

- If the MD STOP button is pressed while the TEST-PLAY menu is displayed, TEST mode STOP state is set.
- If the MD PLAY button is pressed while the TEST-REC menu is displayed, continuous record is started from the current pickup position.
- If the (►►) or (◄◄) button in remote controller is pressed in TEST-REC mode and continuous record mode, the laser record power changes.
  (Servo gain changes also according to the record power.)
- □□□□ : Adress, ▽▽ : Laser power cord

10. EJECT mode

Step No.	Setting Method	Remarks	Display
Step 1	Test mode STOP state		
Step 2	Test mode EJECT state	Eject of MD disc	[_ _ E J E C T _ _ _]
Step 3	Press SOUND button.	Temperature standard value setting.	[TEMP ○○ ●●]
Step 4	Press STOP button.		[_ _ EJECT _ _ _]

- ○○ : Measurement value, ●● : Setting value.

• POWER

Display	TOC recording power	Actual power output	
		Value	Voltage
00H	2.50 mW	6E H	1.354 V
01H	2.60 mW	74 H	1.427 V
02H	2.70 mW	7B H	1.513 V
03H	2.85 mW	83 H	1.612 V
04H	3.00 mW	8A H	1.698 V
05H	3.15 mW	93 H	1.809 V
06H	3.30 mW	93 H	1.809 V
07H	3.45 mW	9C H	1.920 V
08H	3.60 mW	A6 H	2.043 V
09H	3.75 mW	AE H	2.141 V
0AH	3.95 mW	B9 H	2.289 V
0BH	4.15 mW	B9 H	2.289 V
0CH	4.35 mW	C4 H	2.412 V
0DH	4.55 mW	CF H	2.547 V
0EH	4.75 mW	DB H	2.695 V
0FH	5.00 mW	DB H	2.695 V

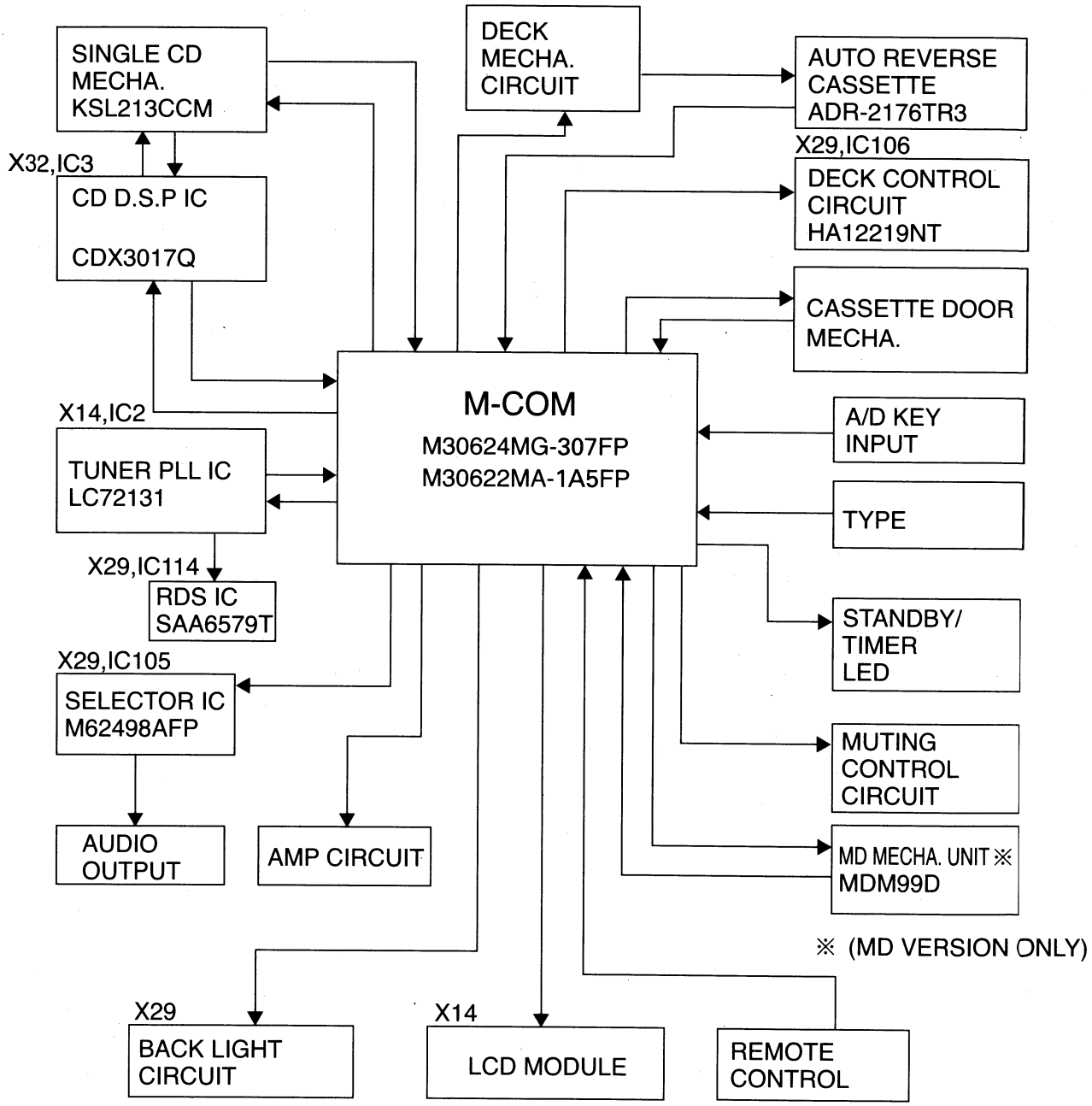
8. MD mechanism error message

DISPLAY	DESCRIPTION
BLANK DISC	Non Recorded disc
CAN'T COPY	Inhibit to record by SCMS
CAN'T EDIT	Inhibit to edit by MD standard
CAN'T REC	Inhibit to record by disc damage(10 or more defects/recordable cluster is 0)
DISC ERROR**	OR : UTOC read error or FTNO>LTNO (edit/record) permit ALL ERASE only
	DO : Start address TNO>endless TNO (playback) handle poor TNO as 1SG
	(edit/record) permit ALL ERASE only
	C0 : Write poor data in UTOC0
	C1 : Write poor data in UTOC1
	C2 : Write poor data in UTOC2
	C4 : Write poor data in UTOC4 (play back) playback even if address roof(C0)
	(edit/record) permit ALL ERASE only
DISC FULL	No recordable area
MECH ERR**	10-13 : head poor down
	20-23 : head poor up
no disc	No disc in the unit
NO TRACKS	Disc recorded title only
NOT AUDIO	Disc recorded audio signal.
PLAY ONLY	Record to music disc
PROTECTED	Record disc inhibited to record
READING	In mode of reading TOC or UTOC
SRCH ERR**	30 : Search time over in playback, FF or FB
	31 : Search time over in REC-PAUSE
	32 : Search time over in record
TEMP OVER	High temperature
TITLE FULL	Input over letter of title
UNIT ERROR	Hardware damage
UTOC W ERR	Error of writing to UTOC
WRITING	In writing to UTOC

CIRCUIT DESCRIPTION

5. Main Microprocessor : X29(IC104) M30622MA-1A5FP (DECK VERSION) M30624MG-307FP (MD VERSION)

5-1 Main Microprocessor Periphery Block Diagram



5-2. Key Matrix

INPUT VOLTAGE(V)	KEY1 Pin90	KEY2 Pin91
0.00~0.23	TUNER/BAND	SET/ DEMO
0.24~0.67	STOP	MENU
0.68~1.12	TAPE REC	SKIP UP
1.13~1.60	TAPE PLAY (F PLAY)	SKIP DOWN
1.61~2.02	MD REC (TAPE O.T.E.)	SOUND
2.03~2.74	MD PLAY (R PLAY)	AUX
2.75~2.47	MD EJECT (TAPE EQ)	-
2.48~3.37	CD PLAY	-
3.38~3.82	CD OPEN/CLOSE	-
3.83~4.27	POWER	-
4.28~4.74	TAPE OPEN/CLOSE	-
4.75~5.00	KEY OFF	KEY OFF

※ Vref=5V
( ) Deck Version

CIRCUIT DESCRIPTION

5-3 Pin Description of Main Microprocessor

Pin No.	Pin Name	I/O	Description		
1	CD_PROTECTION	I	Detection port for CD protection.	H = NORMAL	L = PROTECTION ON
2	CD_OPEN_SW	I	CD open detection switch input.	H = OFF	L = ON
3	CD_OPEN_M	O	CD tray motor control output (open).	H = OFF	L = ON
4	CD_CLOSE_M	O	CD tray motor control output (close).	H = OFF	L = ON
5	CD_CLOSE_SW	I	CD close detection switch input.	H = ON	L = OFF
6	RDS_DATA	I	RDS data input.		
7	CE	I	Power failure input port.	H = AC ON	L = AC OFF
8	BYTE	I	GND.		
9	CNVSS	I	GND.		
10	XCIN	I	Timer clock input (32.768kHz).		
11	XCOUT	O	Timer clock output (32.768kHz).		
12	RESET	I	Reset signal input for microprocessor.	H = NORMAL	L = RESET
13	XOUT	O	Main clock oscillator(10MHz).		
14	VSS	I	GND.		
15	XIN	I	Main clock oscillator(10MHz).		
16	VCC(B.U)	I	Power supply(+5.0v).		
17	NMI	I	Connected to VCC.		
18	REMOCON	I	Remote control signal input.		
19	RDS_CLK	I	RDS clock input.		
20	SCOR	I	Sub code synchronized signal input.		
21	SCLK	O	CD sense data read out clock.		
22	SENSE	I	CD sense input.		
23	CD_CLK	O	CD DSP clock output.		
24	XLAT	O	CD DSP latch output.		L = LATCH
25	CD_DATA	O	CD DSP data output.		
26	SYSM	O	CD DSP system mute output.		
27	CDRST	O	CD DSP reset signal output.		
28	SQCK	O	CD sub code clock output.		
29	SUBQ	I	CD sub code input.		
30	NC	O	Unused.		
31	K_DATA	O	MD data output (MD version only).		
32	MD_DATA	I	MD data input (MD version only).		
33	MD_SCK	O	MD clock output (MD version only).		
34	LED2	O	Control port of standby/timer LED(red).	L = ON	
35	LCD_DATA	O	Data output to LCD driver IC.		
36	NC	O	Unused.		
37	LCD_CLK	O	Clock output to LCD driver IC.		
38	LED1	O	Control port of standby/timer LED (green).	L = ON	
39	ENC1	I	Rotary encoder input (up).		
40	ENC2	I	Rotary encoder input (down).		
41	DECK_CMP	O	Deck capstan motor control.		
42	DECK_SOL	O	Deck solenoid control.		
43	PLAY_SW	I	Deck play switch input.		
44	CrO2_SW	I	Deck CrO2 detection switch input.	H = CrO2	L = Normal
45	PACK_SW	I	Deck pack switch input.	H = OFF	L = ON
46	REC_F_SW	I	Deck forward rec switch input.	H = OFF	L = ON
47,48	NC	-	Unused.		
49	REC_R_SW	I	Deck reverse rec switch input.	H = OFF	L = ON
50	NORMAL_BIAS	O	Deck bias (Normal/CrO2) change-over.		

RXD-M32

CIRCUIT DESCRIPTION

Pin No.	Pin Name	I/O	Description		
51	REC/PLAY	O	Deck rec/play control.		
52	BIAS	O	Deck bias control.		
53	120/70	O	Deck EQ. control.		
54	A/B-1	O	Mode selection for deck.		
55	A/B-2	O	Mode selection for deck.		
56	B-1/2	O	Mode selection for deck.		
57	SD	I	SD detector input.	H = NO TUNED	L = TUNED
58	STEREO	I	Stereo detector input.	H = MONO	L = STEREO
59	PLL_DATA	O	PLL IC data output.		
60	PLL_DO	I	PLL IC data input.		
61	PLL_CE	O	PLL IC chip enable.		
62	VCC(B.U)	I	Power supply(+5.0v).		
63	PLL_CLK	O	PLL IC clock output.		
64	VSS	I	GND.		
65	VOL_CLK	O	Clock output to selector IC.		
66	VOL_DATA	O	Data output to selector IC.		
67	CLOSE_SW	I	Close detection switch input for CD door.	H = OF F	L = ON
68	OPEN_SW	I	Open detection switch input for CD door.	H = OF F	L = ON
69	DOOR F	O	CD door (open) control output.	H = ON	L = OFF
70	DOOR R	O	CD door (close) control output.	H = ON	L = OFF
71	LCD_RST	O	Reset signal output to LCD driver IC.	H = NORMAL	L = RESET
72	LCD_CS	O	CS signal output to LCD driver IC.		
73	BACK_LIGHT	O	Back light control output.		
74	SP_RERAY	O	Speaker relay control output.	H = ON	L = OFF
75	PROTECTION	O	Detection input port for protection circuit	H = PROTECTION ON	
76	H.P SW	I	Headphones detection input.	H = OFF	L = ON
77	A_MUTE	O	Audio muting control output.	H = OFF	L = ON
78	B.U SW	O	Unused.		
79	DSTB	I	MD STB input port.		
80	SEARCH	O	MD search output.		
81	MD_ST	O	MD ON/CD sync. output.		
82	MD_RST	O	Reset signal output to MD.		
83	LOAD SW	I	Loading switch input from MD.		
84	PDOWN	O	MD power supply.	H = ON	L = OFF
85	P.RELAY	O	Power relay control output.	H = ON	L = OFF
86	CD_POWER	O	CD power ON/OFF control.	H = NORMAL	L = AC OFF
87	CD_MON	O	CD monitor output.	H = ON	L = OFF
88	CD_SPEED	O	Speed control port for CD.	H = ON	L = OFF
89	M TYPE CE	O	Unused.		
90	KEY1	I	A/D key (key1) input port.		
91	KEY2	I	A/D key (key2) input port.		
92	RDS_SLEVEL	I	RDS Slevel input.		
93	MD_BUP(NC)	I	Detection port for MD back up.		
94	PHOTO	I	Detection port for deck reel pulse.		
95	TYPE	I	Discrimination port for destination.		
96	AVSS	I	GND.		
97	CD DIFFECT	I	Unused.		
98	VREF	I	A/D reference voltage(+5V).	(No backed up 5V)	
99	AVCC	I	A/D reference voltage(+5V).	(backed up 5V)	
100	NC	O	Unused.		

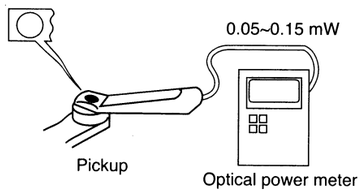
ADJUSTMENT

CD player adjustment

No.	ITEM	INPUT SETTING	OUTPUT SETTING	PLAYER SETTING	ALIGNMENT POINT	ALIGN FOR	FIG.
TEST MODE: While pressing the CD PLAY key, turn the power on.							
1	✻ LASER POWER	–	Set the senor section of the optical power meter on the pickup lens.	Press the "PLAY" key to check that the display is "03".	–	On the power from.0.05 to 0.15mW. when the diffraction grating is correctly aligned with the RF level of 0.8Vp-p or more	(a)
2	LASER CURRENT	Test disc Type 4	Connect the DC voltmeter to CN3 (③, ④) on X32.	Press the "PLAY" key to check that the display is "03" or "05"	–	220mV to 550mV	
3	FOCUS ERROR BIAS	Test disc Type 4	Connect an oscilloscope as follows. CH1: RF(CN3, ①) GND : VC(CN3, ②) ✻ X32	Press the "PLAY" key. Confirm that the display is "05".	VR 1	Optimum eye pattern	(d)

Note:
Type 4disc :SONY YEDS-18 Test Disc or equivalent. (KTD-02)
LPF : Around 47kΩ + 390pF or so.

(a) Laser Power

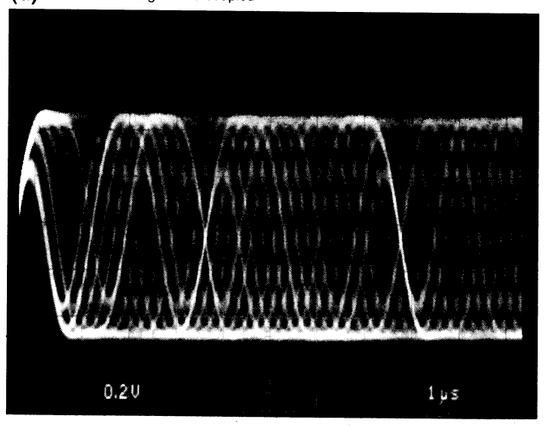


✻ How To Check the Laser Power

1. Set the test mode.
   (The CD tray is opened automatically.)
2. To close the CD tray, press the OPEN/CLOSE key.
3. Move the pickup to outward by pressing the TAPE REC key.

(d)

RF signal: AC coupled

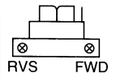


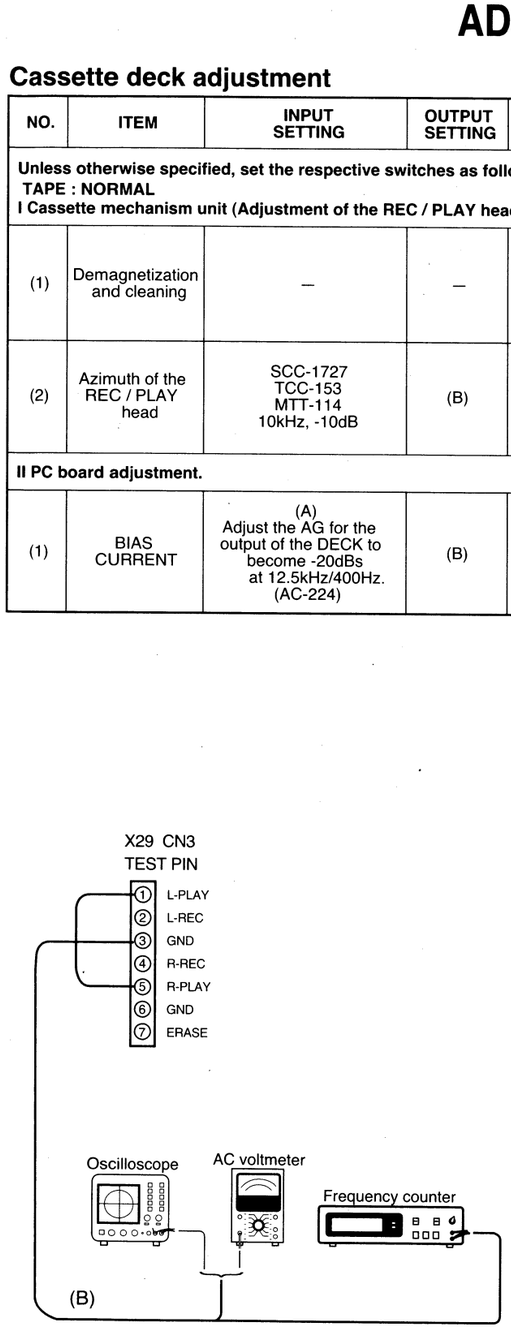
- RF signal in test mode (PLAY).
- Perform the tangential and focusing offset are focused into one point on the display. The crossing points above and below the center shall also be looked clearly.

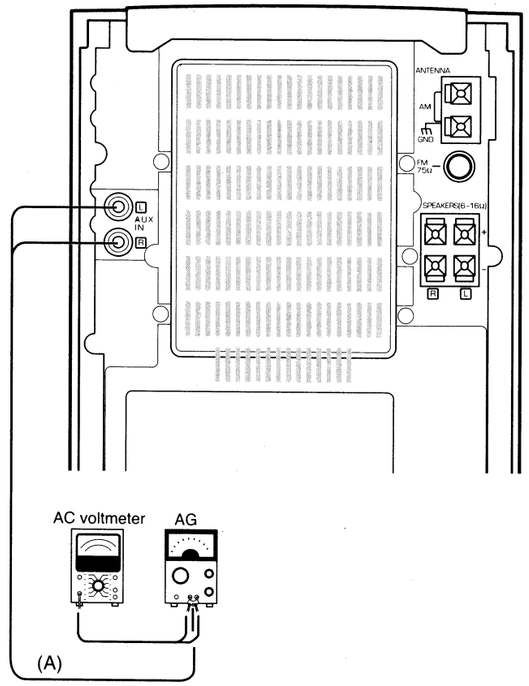
RXD-M32

ADJUSTMENT

Cassette deck adjustment

NO.	ITEM	INPUT SETTING	OUTPUT SETTING	CASSETTE TAPE DECK SETTING	ALIGNMENT POINTS	ALIGN FOR	FIG.
Unless otherwise specified, set the respective switches as follows: TAPE : NORMAL						**0dBs = 0.775V**	
I Cassette mechanism unit (Adjustment of the REC / PLAY head)							
(1)	Demagnetization and cleaning	–	–	Power : OFF Demagnetization, cleaning, PLAY	Recording head, erase head, capstan pinch roller	Demagnetize the REC / PLAY head with the head eraser. Clean the REC/ PLAY head, erase head, capstan and pinch roller using a cotton swab slightly damped with alcohol.	
(2)	Azimuth of the REC / PLAY head	SCC-1727 TCC-153 MTT-114 10kHz, -10dB	(B)	PLAY		Adjust the output to maximum and adjust the azimuth adjustment screw for the Lissajours waveform pattern of the oscilloscope to become close to a 45° straight ling.	
II PC board adjustment.							
(1)	BIAS CURRENT	(A) Adjust the AG for the output of the DECK to become -20dBs at 12.5kHz/400Hz. (AC-224)	(B)	REC PLAY	VR101(L) VR102(R)	Record 400Hz and 12.5kHz alternately, and adjust the bias current adjustment potentiometer for the playback levels to become the same.	



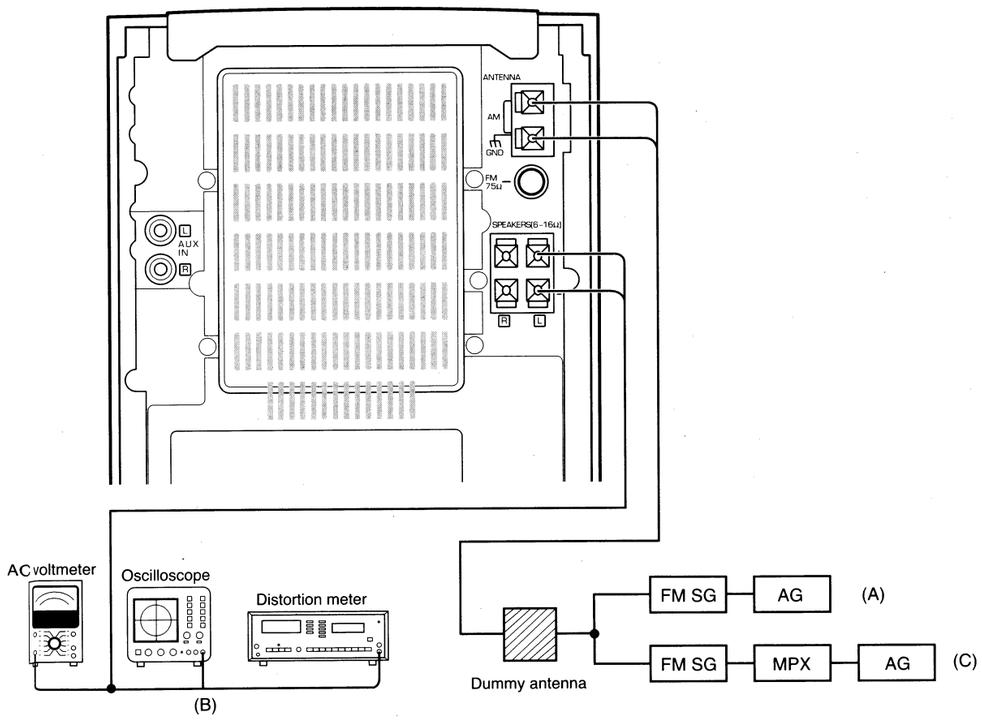


ADJUSTMENT

Tuner adjustment

No.	ITEM	INPUT SETTINGS	OUTPUT SETTINGS	RECEIVER SETTINGS	ALIGNMENT POINTS	ALIGN FOR	FIG.
FM SECTION :		SELECTOR : FM		*Adjust NO.1 and NO.2 repeat.			
1	DISCRIMINATOR	(A) 98.0MHz 1kHz, ±40kHz dev. 70dBf (ANT. input)	Connect a DC voltmeter between CN4 ① and CN4 ② (X14)	MONO 98.0MHz	L4 (X14-)	0V	
2	DISTORTION (MONO)	(A) 98.0MHz 1kHz, ±40kHz dev. MONO 70dBf (ANT. input)	(B)	MONO 98.0MHz	L5 (X14-)	Minimum distortion	
3	DISTORTION (STEREO)	(C) 98.0MHz 1kHz, ±40kHz dev. Selector : L or R Pilot : ±6kHz dev. 70dBf (ANT. input)	(B)	AUTO 98.0MHz	IFT(RF FRONTEND : A1) (X14-)	Minimum distortion (L or R)	
4	TUNING LEVEL	(A) 98.0MHz MONO 1kHz, ±40kHz dev. 30dBf (ANT. input)	–	MONO 98.0MHz	VR1 (X14-)	Adjust VR1 and stop at the point where ED1 (TUNED) goes on.	

SYSTEM CONNECTIONS



HOW TO THE PARTS LIST

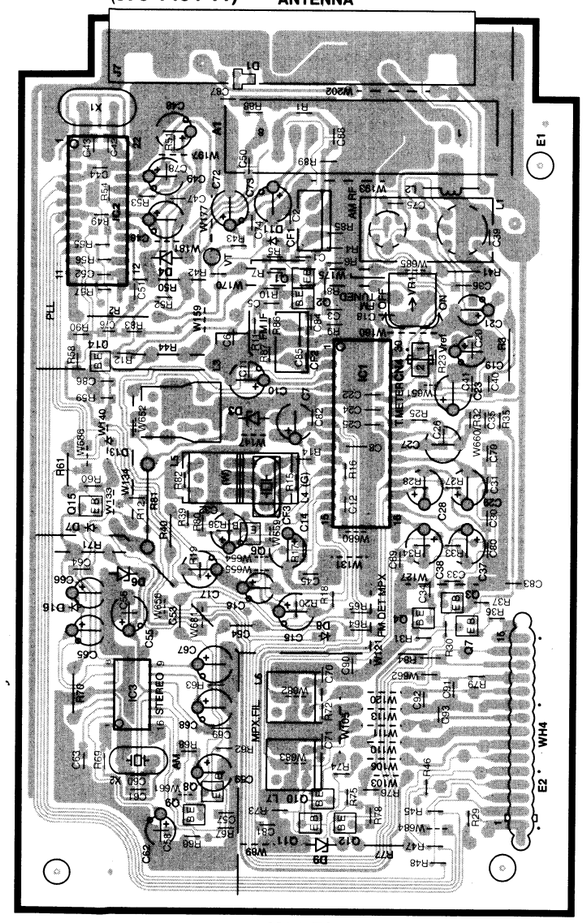
HOW TO READ THE PARTS LIST
ABBREVIATION OF MODEL AND MASS PRODUCTION'S DESTINATIONS

MODEL	*ABB.*	*Australia*	*Canada*	*China*	*England*	*Europe*	*Germany*	*Korea*	*Malaysia*
RXD-M32-L	*L*	X	-	-	T	E	-	H	-
RXD-M32E-L	*L*	-	-	-	-	E2	-	-	-
RXD-M32-S	*S*	X	P	-	T	E	-	H	-
RXD-M32E-S	*S*	-	-	-	-	E2	-	-	-
RXD-M32-Y	*Y*	-	-	-	T1	E1	-	-	-
RXD-M32E-Y	*Y*	-	-	-	-	E3	-	-	-
RXD-M32-H	*H*	X	-	-	T	E	-	H	-
RXD-M32E-H	*H*	-	-	-	-	E2	-	-	-
RXD-M32-W	*W*	-	-	-	-	E	-	-	-
RXD-M32E-W	*W*	-	-	-	-	E2	-	-	-
RXD-M32-LS	*LS*	-	P	-	-	-	-	-	-

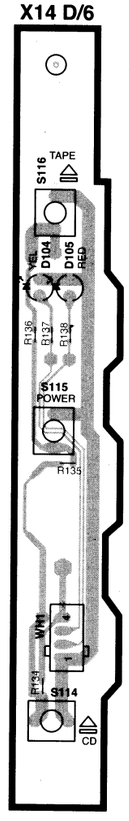
MODEL	*ABB.*	*Mexico*	*PX/AAFES*	*Russia*	*Scandinavia*	*Shanghai*	*USA*	*Other area*	
RXD-M32-L	*L*	-	-	-	-	-	-	M	-
RXD-M32E-L	*L*	-	-	-	-	-	-	-	-
RXD-M32-S	*S*	-	-	-	-	-	K	M	-
RXD-M32E-S	*S*	-	-	-	-	-	-	-	-
RXD-M32-Y	*Y*	-	-	-	-	-	-	M1	-
RXD-M32E-Y	*Y*	-	-	-	-	-	-	-	-
RXD-M32-H	*H*	-	-	-	-	-	-	M	-
RXD-M32E-H	*H*	-	-	-	-	-	-	-	-
RXD-M32-W	*W*	-	-	-	-	-	-	-	-
RXD-M32E-W	*W*	-	-	-	-	-	-	-	-
RXD-M32-LS	*LS*	-	-	-	-	-	K	-	-

PC B0ARD(Component side view)

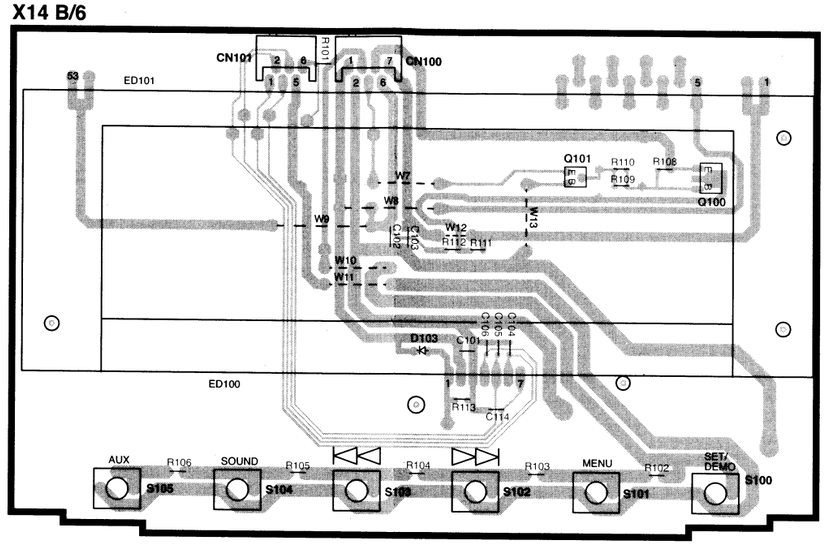
X14-7140-00 A/6
(J70-1404-11)



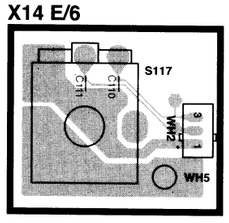
X14 D/6



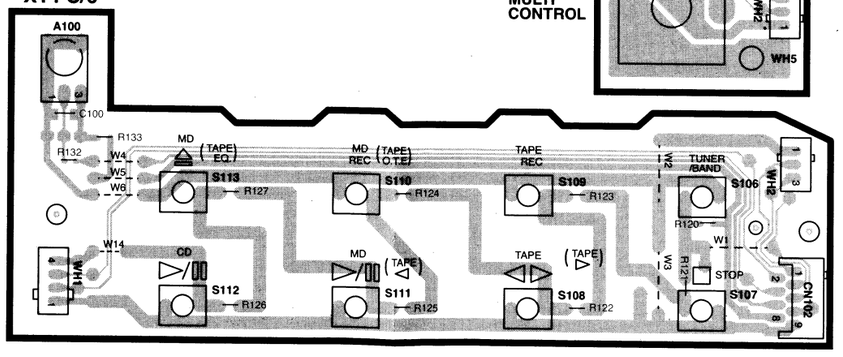
X14 B/6



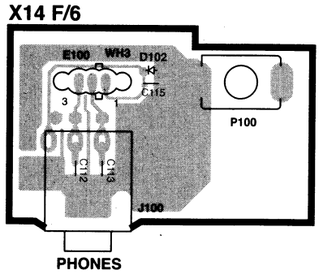
X14 E/6



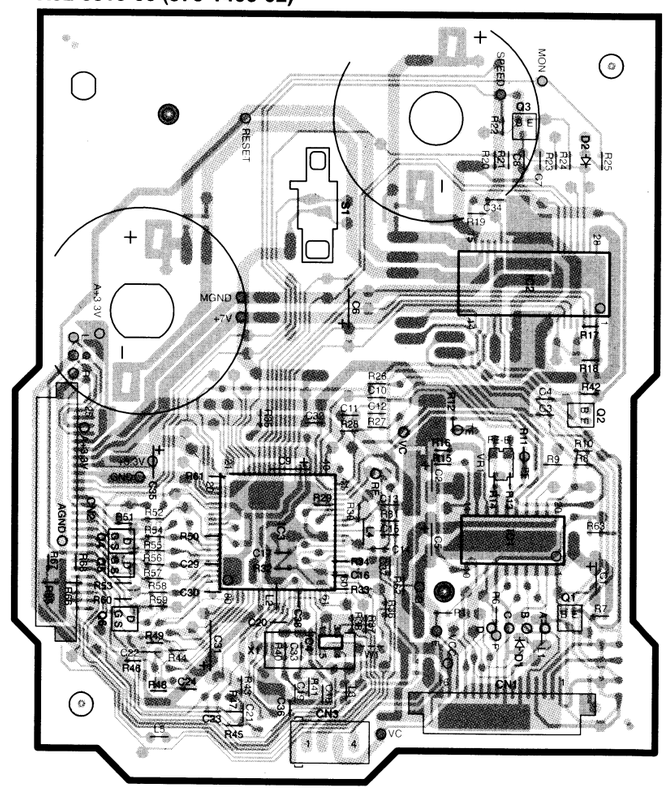
X14 C/6



X14 F/6

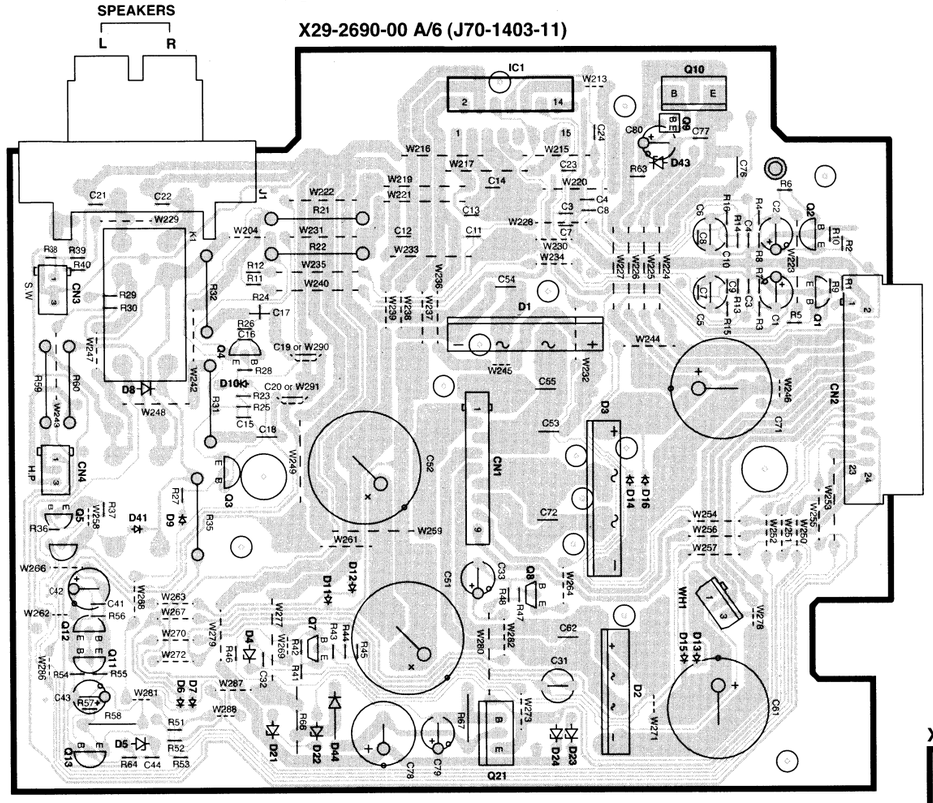


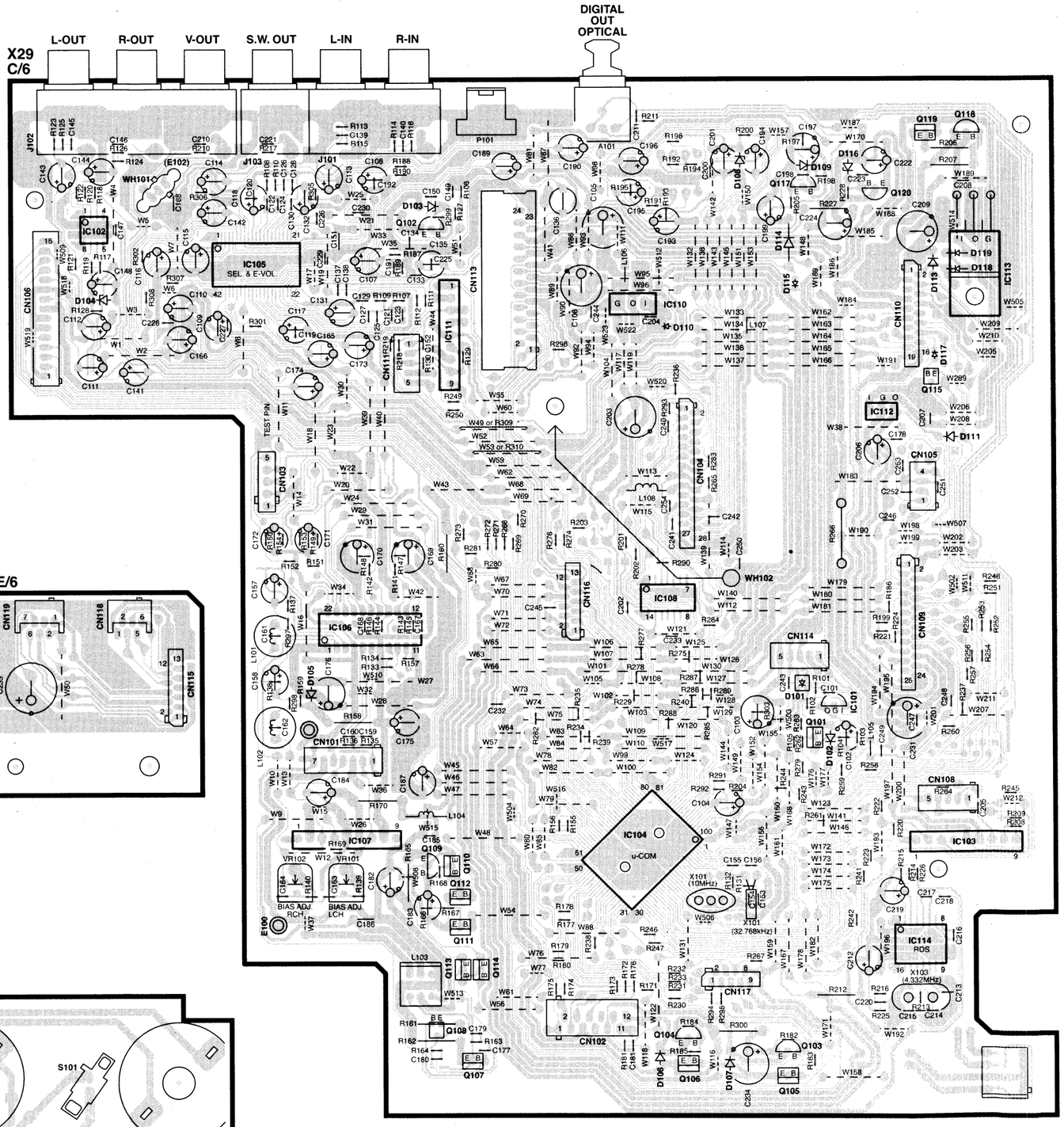
X32-3810-00 (J70-1406-02)

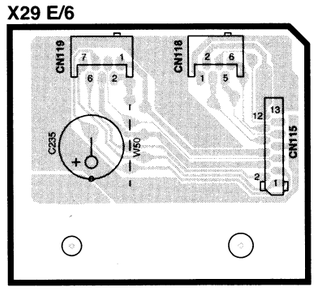


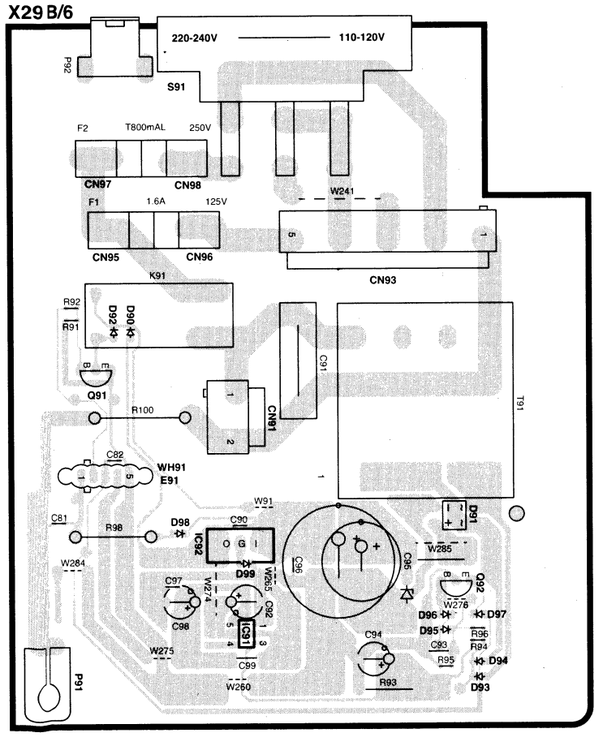
Refer to the schematic diagram for the value of resistors and capacitors.

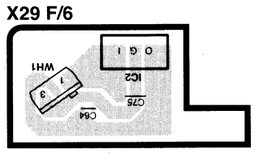
PC BOARD(Component side view)

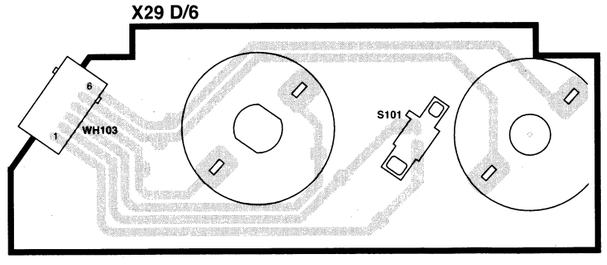












Refer to the schematic diagram for the value of resistors and capacitors.

TUNER UNIT (X14-714X-XX) (A/6)

*CN4 VREF TMETER

FM TUNED ADJ

*IC1 FM DET/MPX AM DET

AM RF

FM FRONT-END

(K,P,M,M1,X) TYPE
A1 (W02-2622-05)

FET : 2SK302
TR1 : 2SC2714
TR2,3 : 2SC2413
D1-3 : HVU202 or 1T362

(T,T1,E,E1,H,H1,E2,E3) TYPE
A1 (W02-2584-05)

FET1 : 2SK302
TR1 : 2SC2714
TR2,3 : 2SC2413
D1-4 : SVC220 or KV1440

(J) TYPE
A1 (W02-2621-05)

FET : 2SK302
TR1 : 2SC2714
TR2,3 : 2SC2413
D1-3 : HVU202 or 1T363
D4 : HSU277 or 1SS356

FM IF AMP

DE-EMPHASIS 75uS: ON 50uS: OFF

50uS [75uS]

S LEVEL BUFFER

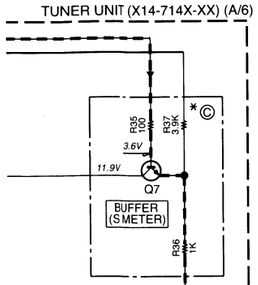
DISCRIMINATOR

PLL IC2

X1 7.2MHz

J7 FM 75Ω GND AM ANT

TUNER UNIT (X14-714X-XX) (A/6)



RXD-SH3MD-L/SH3MD-S/SH3MD-H/SH3MD-LS/SH3MD-W/SH3MD-Y/SH3MD-D (X14-7140-00)

DESTINATION COUNTRY	ABB	UNIT No.	ⒶⒷⒸⒺⒻⒼ	R8, 11	R14	R15	R23	R25	R27, 28	R32	C25	C26,30, 31,83	C35, 89,90	C70, 71,74	C79, 80	IC1	CF1,2	E1	CF3	CN4	W656, 660	W682, 683	L6, 7
JAPAN	J	0-00	NO	33	270	NO	3.3K	18K	4.7K	YES	470P	0.022	YES	NO	3300P	LA1838	L72-0531(MA5)	F10-1165	YES	NO	NO	YES	NO
JAPAN	J1	0-01																					
JAPAN	J2	0-02																					

RXD-M32MD-S/M32MD-LS/M32MD-L (X14-714X-XX)

DESTINATION COUNTRY	ABB	UNIT No.	ⒶⒸⒻⒼ	ⒷⒺ	R8	R11	R14	R15	R23	R25	R27, 28	R32	C25	C26	C30, 31	C35 89,90	C70, 71	C74	C79, 80	C83	IC1	CF1,2	E1	CF3	CN4	W656	W682, 683	W660	L6, 7
GENERAL MARKET	M	0-21	NO	NO	33	33	270	NO	3.3K	18K	4.7K	YES	470P	0.022	0.022	YES	NO	NO	3300P	0.022	LA1838	L72-0531(MA5)	F10-1165	YES	NO	NO	YES	NO	NO
AUSTRALIA	X	0-71																											
U.K.	T	2-71	YES		10	22	100	33K	15K	27K	4.3K	NO	180P	0.018		NO	YES		6800P	100P	LA1837	L72-0536(MS3)	F10-1166	NO	YES			YES	YES
EUROPE	E																												
KOREA	H																												

RXD-M32MD-Y(X14-714X-XX)

DESTINATION COUNTRY	ABB	UNIT No.	ⒶⒸⒻⒼ	Ⓑ	Ⓔ	R8	R11	R14	R15	R23	R25	R27, 28	R32	C25	C26	C30, 31	C35, 89,90	C70, 71	C74	C79, 80	C83	IC1	CF1,2	E1	CF3	CN4	W656, 682,683	W660	L6, 7
GENERAL MARKET	M1	0-22	NO	YES	NO	33	33	270	NO	3.3K	18K	4.7K	YES	470P	0.022	0.022	YES	NO	NO	3300P	0.022	LA1838	L72-0531(MA5)	F10-1165	YES	NO	YES	NO	NO
KOREA	H1	2-72	YES	NO		10	22	100	33K	15K	27K	4.3K	NO	180P	0.018		NO	YES		6800P	100P	LA1837	L72-0536(MS3)	F10-1166	NO	YES	NO	YES	YES

RXD-M32-S/M32-L/M32-H/M32-W (X14-714X-XX)

DESTINATION COUNTRY	ABB	UNIT No.	ⒶⒸⒻⒼ	Ⓑ	Ⓔ	R8	R11	R14	R15	R23	R25	R27, 28	R32	C25	C26	C30, 31	C35, 89,90	C70, 71	C74	C79, 80	C83	IC1	CF1,2	E1	CF3	CN4	W656	W660	W682, 683	L6, 7
GENERAL MARKET	M	0-21	NO	YES	NO	33	33	270	NO	3.3K	18K	4.7K	YES	470P	0.022	0.022	YES	NO	NO	3300P	0.022	LA1838	L72-0531(MA5)	F10-1165	YES	NO	YES	NO	YES	NO
AUSTRALIA	X	0-71																												
U.K.	T	2-71	YES	NO	NO	10	22	100	33K	15K	27K	4.3K	NO	180P	0.018		NO	YES		6800P	100P	LA1837	L72-0536(MS3)	F10-1166	NO	YES	NO	YES	YES	YES
EUROPE	E																													
KOREA	H																													

RXD-M32-S/M32-LS (X14-714X-XX)

DESTINATION COUNTRY	ABB	UNIT No.	ⒶⒷⒸⒻⒼ	Ⓔ	R8, 11	R14	R15	R23	R25	R27, 28	R32	C25	C26	C30, 31	C35,74, 89,90	C70, 71	C79, 80	C83	IC1	CF1,2	E1	CF3	CN4	W656, 660	W682, 683	L6, 7
U.S.A.	K	0-11	NO	YES	33	100	4.7K	8.2K	16K	4.7K	YES	470P	0.022	0.033	YES	NO	4700P	100P	LA1837	L72-0596(MS2)	F10-1165	NO	YES	NO	YES	NO
CANADA	P																									

RXD-M32-Y(X14-714X-XX)

DESTINATION COUNTRY	ABB	UNIT No.	ⒶⒸⒻⒼ	Ⓑ	Ⓔ	R8	R11	R14	R15	R23	R25	R27, 28	R32	C25	C26	C30, 31	C35, 89,90	C70, 71	C74	C79, 80	C83	IC1	CF1,2	E1	CF3	CN4	W656, 682,683	W660	L6, 7
GENERAL MARKET	M1	0-22	NO	YES	NO	33	33	270	NO	3.3K	18K	4.7K	YES	470P	0.022	0.022	YES	NO	NO	3300P	0.022	LA1838	L72-0531(MA5)	F10-1165	YES	NO	YES	NO	NO
U.K.	T1	2-72	YES	NO		10	22	100	33K	15K	27K	4.3K	NO	180P	0.018		NO	YES		6800P	100P	LA1837	L72-0536(MS3)	F10-1166	NO	YES	NO	YES	YES
EUROPE	E1																												

RXD-M32E-L/M32E-H/M32E-S/M32E-W (X14-7142-71)

DESTINATION COUNTRY	ABB	UNIT No.	ⒶⒸⒻⒼ	ⒷⒺ	R8	R11	R14	R15	R23	R25	R27, 28	R32	C25	C26	C30, 31	C35,74 89,90	C70, 71	C79, 80	C83	IC1	CF1,2	E1	CF3	CN4	W656, 682,683	W660	L6, 7
EUROPE	E2	2-71	YES	NO	10	22	100	33K	15K	27K	4.3K	NO	180P	0.018	0.022	NO	YES	6800P	100P	LA1837	L72-0536(MS3)	F10-1166	NO	YES	NO	YES	YES

RXD-M32E-Y (X14-7142-72)

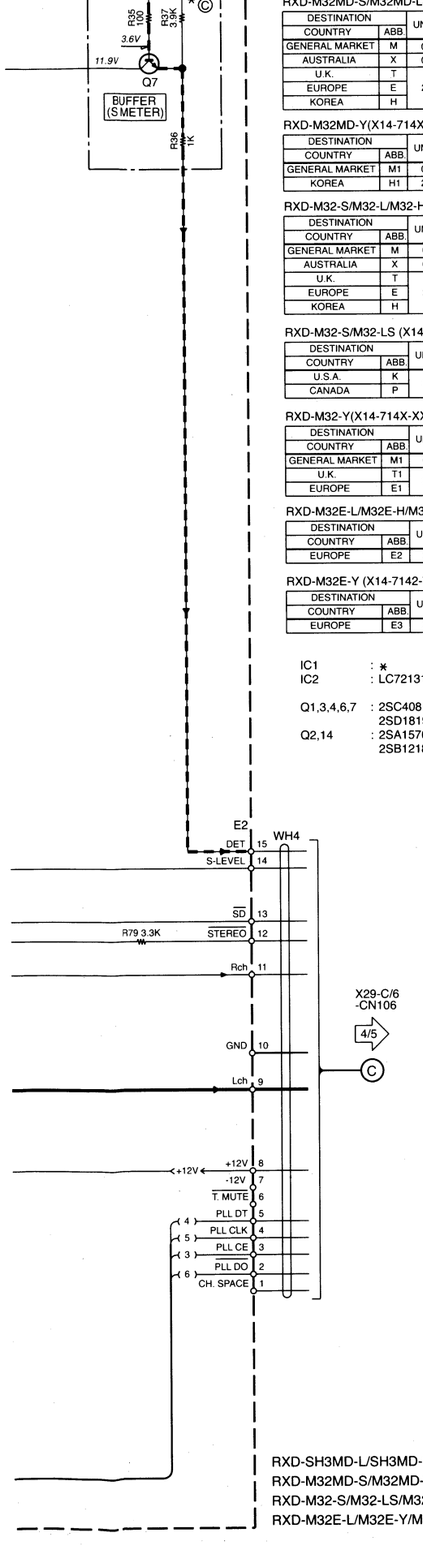
DESTINATION COUNTRY	ABB	UNIT No.	ⒶⒸⒻⒼ	ⒷⒺ	R8	R11	R14	R15	R23	R25	R27, 28	R32	C25	C26	C30, 31	C35,74 89,90	C70, 71	C79, 80	C83	IC1	CF1,2	E1	CF3	CN4	W656, 682,683	W660	L6, 7
EUROPE	E3	2-72	YES	NO	10	22	100	33K	15K	27K	4.3K	NO	180P	0.018	0.022	NO	YES	6800P	100P	LA1837	L72-0536(MS3)	F10-1166	NO	YES	NO	YES	YES

IC1 : *
IC2 : LC72131

Q1,3,4,6,7 : 2SC4081(R,S) or 2SD1819A(Q,R)
Q2,14 : 2SA1576A(R,S) or 2SB1218A(Q,R)

D1 : DA204U or MA143A or 1SS302
D3 : MTZJ8.2(B) or HZS8.2N(B2)
D4 : MTZJ5.1(B) or HZS5.1N(B2)
D8,11,13 : MA111

DIGITAL LINE
SIGNAL LINE
GND LINE
+B LINE



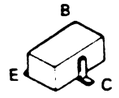
CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

The DC voltage is an actual reading measured with a high impedance type voltmeter as the AM/FM signal generator is specified to the conditions as shown in the list below. The measurement value may vary depending on the measuring instruments used or on the product. The value shown in ( ) is actual reading measured in the AM mode.

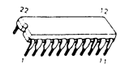
MODE	CARRIER	MODULATION		ANT INPUT
		FREQUENCY	DEVIATION	
FM	98MHz	1kHz	STEREO 67.5kHz 7.5kHz(Pilot)	60dB
AM	1000(999)kHz	400Hz	MONO 30% MOD	60dB

2SD2012

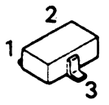
2SA1576A 2SD1819A
2SB1218A
2SC4116



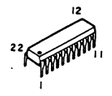
HA12219NT



DA204U

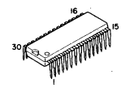


LC72131

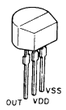


BA3126N

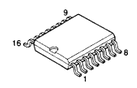
LA1837
LA1838



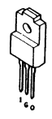
S-80840ANY



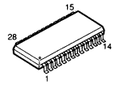
SAA6579T/R



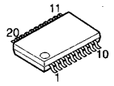
TA7812S



BA5974FP



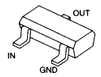
CXA1821M



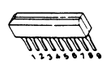
L88M33T

2SC4081

DTA124EUA



TA8409S



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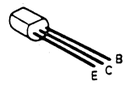
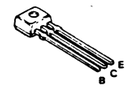
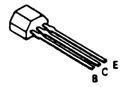
2SB764
2SC2003
2SC2878
2SC3246



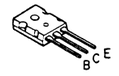
2SC2785



DTA124ESA 2SC2458
DTC124ESA
UN4112

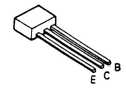


2SD1963



2SD2061

UN4212



RXD-SH3MD-L/SH3MD-S/SH3MD-D/SH3MD-H/SH3MD-Y/SH3MD-LS/SH3MD-W (2/5)
RXD-M32MD-S/M32MD-Y/M32MD-LS/M32MD-L (2/5)
RXD-M32-S/M32-LS/M32-L/M32-Y/M32-H/M32-W (2/5)
RXD-M32E-L/M32E-Y/M32E-H/M32E-S/M32E-W (2/5)

Y39-5350-10

RXD-M32

KENWOOD

RXD-SH3MD-L/SH3MD-S/SH3MD-H/SH3MD-LS/SH3MD-W (X32-3810-00)

DESTINATION		UNIT No.	R22,24, 37,38	C3	C4, 7	C37	Q2,3	L3	W1	IC4
COUNTRY	ABB.									
JAPAN	J	0-00	YES	15P	YES	NO	YES	YES	YES	YES

RXD-SH3MD-Y (X32-3810-00)

DESTINATION		UNIT No.	R22,24, 37,38	C3	C4, 7	C37	Q2,3	L3	W1	IC4
COUNTRY	ABB.									
JAPAN	J1	0-00	YES	15P	YES	NO	YES	YES	YES	YES

RXD-SH3MD-D (X32-3810-00)

DESTINATION		UNIT No.	R22,24, 37,38	C3	C4, 7	C37	Q2,3	L3	W1	IC4
COUNTRY	ABB.									
JAPAN	J2	0-00	YES	15P	YES	NO	YES	YES	YES	YES

RXD-M32MD-S/M32MD-LS/M32M-L (X32-3810-00)

DESTINATION		UNIT No.	R22,24, 37,38	C3	C4, 7	C37	Q2,3	L3	W1	IC4
COUNTRY	ABB.									
GENERAL MARKET	M	0-00	YES	15P	YES	NO	YES	YES	YES	YES
U.K.	T									
EUROPE	E									
KOREA	H									
AUSTRALIA	X									

RXD-M32MD-Y (X32-3810-00)

DESTINATION		UNIT No.	R22,24, 37,38	C3	C4, 7	C37	Q2,3	L3	W1	IC4
COUNTRY	ABB.									
GENERAL MARKET	M1	0-00	YES	15P	YES	NO	YES	YES	YES	YES
KOREA	H1									

RXD-M32-S/M32-LS (X32-3810-01)

DESTINATION		UNIT No.	R22,24, 37,38	C3	C4, 7	C37	Q2,3	L3	W1	IC4
COUNTRY	ABB.									
U.S.A.	K	0-01	NO	22P	NO	YES	NO	NO	NO	NO
CANADA	P									

RXD-M32-S/M32-L/M32-H/M32-W (X32-3810-01)

DESTINATION		UNIT No.	R22,24, 37,38	C3	C4, 7	C37	Q2,3	L3	W1	IC4
COUNTRY	ABB.									
GENERAL MARKET	M	0-01	NO	22P	NO	YES	NO	NO	NO	NO
AUSTRALIA	X									
U.K.	T									
EUROPE	E									
KOREA	H									

RXD-M32E-Y(X32-3810-01)

DESTINATION		UNIT No.	R22,24, 37,38	C3	C4, 7	C37	Q2,3	L3	W1	IC4
COUNTRY	ABB.									
EUROPE	E3	0-01	NO	22P	NO	YES	NO	NO	NO	NO

RXD-M32E-L/M32E-H/M32E-S/M32E-W(X32-3810-01)

DESTINATION		UNIT No.	R22,24, 37,38	C3	C4, 7	C37	Q2,3	L3	W1	IC4
COUNTRY	ABB.									
EUROPE	E2	0-01	NO	22P	NO	YES	NO	NO	NO	NO

RXD-M32-Y (X32-3810-01)

DESTINATION		UNIT No.	R22,24, 37,38	C3	C4, 7	C37	Q2,3	L3	W1	IC4
COUNTRY	ABB.									
GENERAL MARKET	M1	0-01	NO	22P	NO	YES	NO	NO	NO	NO
U.K.	T1									
EUROPE	E1									

RXD-SH3MD-L/SH3MD-S/SH3MD-D/SH3MD-H (3/5)
RXD-SH3MD-Y/SH3MD-LS/SH3MD-W (3/5)
RXD-M32MD-S/M32MD-Y/M32MD-LS/M32MD-L (3/5)
RXD-M32-S/M32-LS/M32-L/M32-Y/M32-H/M32-W (3/5)
RXD-M32E-L/M32E-Y/M32E-H/M32E-S/M32E-W (3/5)

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

The DC voltage is an actual reading measured with a high impedance type voltmeter with no signal input. The measurement value may vary depending on the measuring instruments used or on the product.

Y39-5350-10

RXD-M32

KENWOOD

AE AF AG AH AI AJ AK AL AM AN

1 2 3 4 5 6 7

MDM-99D -CN1501 1/5 A

MDM-99D -CN1052 1/5 B

X32- CN2 3/5 D

(X29-269X-XX) (C/6)

DIODE PHOTO SENSOR SOLENOID MODE SW 2.2K 10K CAPSTAN MOTOR

CN102 +SOL SENSOR OUT PLAY SW +MTR NC NC +5V(SENSOR) GND

CrO2 HALF REC-F REC-R

CrO2 SW PACK SW F.REC SW R.REC SW

MOTOR DRIVER Q103 Q104 Q105 Q106 R182 47K R184 47K R183 2K R185 4.7K C234 330u16 R181 5.6K

SOL DRIVER R300 5.6 1/4W

D106 D107 C181 0.01

R171 100 R172 100 R173 100 R174 100 R175 100 R176 4.7K R177 4.7K R178 4.7K R179 4.7K R180 4.7K

CN103 ADJUSTMENT L-PLAY L-REC GND R-PLAY R-REC

Q117 MD-AVCC REG. R197 10 R198 470 C198 0.1 C197 100u25 D109 6.8V C199 100u10

MD-AVDD REG. IC110 VOUT VGND VIN C204 680P C203 470u10 D110 D114

CN104 D OUT GND D IN B.U. P DOWN MDRST MD-ST DSCK SEARCH XDATA HDDATA DSTB D GND D GND D GND D GND DVDD DVDD PCONTO LOAD SW +5V AVCC LIN(REC) A.GND RIN(REC) A.GND LOUT (PLAY) A.GND ROUT (PLAY)

WH102

R293 510 C240 0.01 R202 100 R201 100 R240 100 R275 100 R265 4.7K C254 0.01 C202 0.01 L108 L107

IC108 LEVEL SHIFT (BOTTOM VIEW) GND 3Y 3A 2Y 2A 1Y 1A VCC

C242 100P C241 100P C250 0.01 C190 3.3u50 R188 3.3K C108 3.3u50 R190 9.1K C192 820P C200 100P C189 3.3u50 R187 3.3K R189 9.1K C191 820P C107 3.3u50 C229 100P C200 100P C194 3.3u50 IC109 (2/2) R192 22K R194 10K R196 100K R200 1K MD ANALOG-REC AMP C196 3.3u50 R191 22K R193 10K R195 100K C201 100u10 D108 C193 3.3u50 IC109 (1/2) C195 3.3u50

CN105 LRCK BCK GND PCMD C252 22P C253 10P C251 47P

A101 OPT OUT D OUT VDD GND C211 0.1 R211 10

CN108 GND LOAD+ OPEN SW LOAD- CLOSE SW R264 100 R245 100 C205 0.1 R209 1K

IC101 : S-80840ANY
IC103,111 : TA8409S
IC104 : *
IC105 : M62498AFP
IC106 : HA12219NT
IC107 : BA3126N
IC108 : TC74HCT7007AF
IC109 : NJM4565D
IC110 : BA05T or LM2940CT-5.0 or TA7805S or UPC7805AHF or BA17805T
IC112 : L88M33T
IC114 : SAA6579T/R

Q101,107 : 2SC2785(F,E) or 2SC2458(Y,GR)
Q102,117 : 2SC2003(L,K)
Q103 : 2SB764(E,F)
Q104,118 : 2SA1286-T11
Q105,106,111,112,114,119 : UN4212 or DTC124ESA
Q108 : 2SC4081(R,S) or 2SC4116(Y,GR)
Q109 : 2SD863(E,F)
Q110,113 : UN4112 or DTA124ESA
Q120 : 2SC3246

D101 : 1SS402
D102,106,107,111,114 : 1SS133 or HSS104A
D103,105,116 : RD5.6ES(B2) or MTZJ5.6(B)
D108 : RD5.1ES(B2) or MTZJ5.1(B)
D109 : RD6.8ES(B2) or MTZJ6.8(B)
D110,115 : MA111

A101 : W02-1114-15

DIGITAL LINE
RECORDING LINE
SIGNAL LINE
GND LINE
+B LINE
−B LINE

PLAY/REC HEAD SW (PB:ON REC:OFF) IC107 REC SW COM R-R CONT GND VCC L-R COM REC SW R169 10K C184 10u16

R/P SWITCH Q113 Q114 R170 10 1/4W

CN101 L-PLAY L-REC GND R-REC R-PLAY GND ERASE Lch Rch ERASE

C159 680P R135 150K C160 680P R136 150K L102 10mH C162 220P R298 15K R137 10K R138 10K L101 10mH C161 220P R297 15K

BIAS ADJ. (Lch) VR101 100K BIAS ADJ. (Rch) VR102 100K C163 220P R139 10K C164 220P R140 10K R165 10 1/4W

REC: 10.5V Q109 11.9V BIAS AVR R168 1K 11.8V Q110 SWITCH NOR ⇔ CrO2 0V 4.6V BIAS ON/OFF SW Q111 Q112 NOR: 4.6V REC: 9.9V 9.5V C183 10u16 R166 10K R167 15K

L103 C186 0.01 Q108 BIAS OSC C177 0.01 R163 27K C179 4700P R164 27K C180 4700P C182 10u16 R161 3.3 1/4W R162 3.3 1/4W Q107

L104 10uH C185 1

IC106 PLAY BACK /REC EQ. R-IN-R R-IN-L R-I/2-R R-I/2-L A/B-R A/N-C PNF-R PEQ-R OUT-R OUT-L PEQ-L PNF-L VCC ROUT-R ROUT-L REC-RST B-IN-R B-IN-L VREF A-IN-R A-IN-L REF GND

C172 1u50 R152 2.7K R154 6.8K C171 1u50 R153 2.7K R151 2.7K R149 2.2K R155 9.1K R156 3.9K C187 22u16 C170 220u10 R142 330K R144 15K R148 20 C168 0.01 R146 22K R143 15K R145 22K C167 0.01 R147 20 R141 330K C169 220u10 C158 10u16 C157 10u16 R134 10K R133 10K R157 22K R159 1K R158 10 1/4W C176 100u25 D105 C175 100u10 R160 10 1/4W

IC104 (BOTTOM VIEW) u-COM

NORMAL BIAS REC-R SW NC RC REC-F SW PACK SW CrO2 SW PLAY SW SOL CAM ENC2 ENC1 LED1 LCD CLK NC LCD DATA LED2 DSCK MD DATA KDATA

R230 100 R231 100 R233 10 R238 560 R239 100 R232 10 R241 1.8K R242 1.6K R243 3.3K R244 3.3K

REC/PLAY BIAS 120/70 A/B-1 A/B-2 B-1/2 SDA STEREO PLL-DATA PLL-DO PLL-CE VCC(B.U.) PLL CLK VSS VOL-CLK VOL-DATA D.CLOSE SW D.OPEN SW DOOR-F DOOR-R LCD-RST LCD-CS BACK LIGHT SP.RELAY PROTECTION H.P SW A.MUTE B.U.SW DSTB SEARCH

R271 100 R268 100 R269 100 R270 100 R250 100 R249 100 R234 100 R235 100 R229 100 R278 100 R276 100 R274 100 R277 100 R288 100 R283 3.3K

TUNER CONT. DECK CONT. POP-UP MECHA CONT.

MD-ST MD-RST LOAD SW P.DOWN P.RELAY CD POWER MON SPEED HP-RELAY KEY1 KEY2 S.LEVEL BACK UP(MD) PHOTO SHIMUKE AVSS CD DFCT VREF AVCC NC

R287 100 R286 100 R289 100 R285 1.6K R279 100 R259 3.3K R260 100 R237 100 R203 100K R204 100K

CD CONT. MP-DATA MP-CLK MP-STB

R247 100 R248 100 R251 100 R252 100 R253 100 R254 100 R255 100 R256 100 R257 100 R258 100

RDS CLK REMCON NHI VCC(B.U.) XIN VSS XOUT RESET XCOUT XCIN CNVSS BYTE CE RDS DATA CLOSE SW TRY R TRY F OPEN SW CD PROTECTION

10MHz X101 C156 0.1 32.768KHz X102 R132 4.7M R131 100K C155 0.01 R262 1K C153 22P C154 18P R261 10K

CD MECHA CONT.

X14-A/6 -E2 1/5 C

RXD-SH3MD-L/SH3MD-S/SH3MD-H/SH3MD-LS/SH3MD-W/SH3MD-D/SH3MD-Y (X29-2690-00)

DESTINATION		UNIT No.	Ⓒ Ⓕ Ⓗ Ⓙ	Ⓓ Ⓔ	R203	R292	J101	IC104	C121, 122	C123, 124	C249	C246, 247
COUNTRY	ABB.											
JAPAN	J,J1,J2	0-00	YES	NO	YES	910K	NO	M30624MG-307FP	0.1	0.082	YES	NO

RXD-M32MD-S/M32MD-Y/M32MD-LS/M32MD-L (X29-269X-XX)

DESTINATION		UNIT No.	Ⓕ Ⓗ Ⓙ	Ⓒ Ⓓ	Ⓔ	R203	R292	J101	IC104	C121, 122	C123, 124	C249	C246, 247
GENERAL MARKET	M,M1	0-21				NO		100K					
AUSTRALIA	X	0-71											
U.K.	T		YES	NO	YES		12K	YES	M30624MG-307FP	0.15	0.068	YES	NO
EUROPE	E	2-71				YES							
KOREA	H							47K					

RXD-M32-S/M32-LS/M32-L/M32-H/M32-Y/M32-W (X29-269X-XX)

DESTINATION		UNIT No.	Ⓓ	Ⓒ Ⓕ Ⓗ Ⓙ	Ⓔ	R203	R292	J101	IC104	C121, 122	C123, 124	C249	C246, 247
COUNTRY	ABB.												
U.S.A.	K	0-11					220K						
CANADA	P				NO		100K						
GENERAL MARKET	M,M1	0-22				NO	47K	YES	M30622MA-1A5FP	0.15	0.068	NO	YES
AUSTRALIA	X	0-72	YES	NO									
U.K.	T,T1				NO		12K						
EUROPE	E,E1	2-72			YES								
KOREA	H												

RXD-M32E-L/M32E-H/M32E-S/M32E-W/M32E-Y (X29-2692-72)

DESTINATION		UNIT No.	Ⓓ Ⓔ	Ⓒ Ⓕ Ⓗ Ⓙ	R203	R292	J101	IC104	C121, 122	C123, 124	C249	C246, 247
COUNTRY	ABB.											
EUROPE	E2,E3	2-72	YES	NO	NO	12K	YES	M30622MA-1A5FP	0.15	0.068	NO	YES

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RXD-SH3MD-L/SH3MD-S/SH3MD-D/SH3MD-H (4/5)
RXD-SH3MD-Y/SH3MD-LS/SH3MD-W (4/5)
RXD-M32MD-S/M32MD-Y/M32MD-LS/M32MD-L (4/5)
RXD-M32-S/M32-LS/M32-L/M32-Y/M32-H/M32-W (4/5)
RXD-M32E-L/M32E-Y/M32E-H/M32E-S/M32E-W (4/5)

Y39-5350-10

RXD-M32

KENWOOD

X29-C/6 -CN114 4/5 G
X29-C/6 -E102 4/5 H
X29-C/6 -CN113 4/5 I
X29-E/6 -CN118 4/5 J
X29-E/6 -CN119 4/5 K
X29-C/6 -CN117 4/5 F

(X14-714X-XX) (B/6)

CN101: VREF, uGND, LCD SDA, LCD SCL, LCD CS, LCD RS

CN100: LCD VDD (+5V), LCD GND, KEY2, D IN, -16V, FL AC, FL AC

ED100 (B38-0233-08)

ED101 (BL-150NK)

RANDOM REPEAT ALL PGM RDS EON TP TA NEWS VCD PBC
CD MD MUTE SLEEP PROG. 1 2 O.T.T. A.P.S. EX.BASS
O.T.E. TAPE EQ. AUTO TUNED LOUD
TAPE REC MD REC ST
TAPE TUNER

IC: V5, VDD, VSS, SDA, SCL, CS, RS; 7.3K ×4

D103

ED101 FL BACK LIGHT

Q101 R109 13K R108 6.8K R112 220 R110 13K Q100 R111 220

Q100 BACK LIGHT DIMMER CONT.

C103 1 C102 1

R113 100 C101 0.1 C106 47P C105 47P C104 47P C114 0.01

R101 10K S100 SET/DEMO
R102 1K S101 MENU
R103 1.2K S102 SKIP UP
R104 1.5K S103 SKIP DOWN
R105 2.0K S104 SOUND
R106 2.4K S105 AUX

(X14-) (C/6)

CN102: ENCO1, LED1, ENCO2, LED2, KEY1, REM, NC, VREF, uGND

A100: GND, VOUT, VCC

R133 100 R120 10K R132 1K C100

KEY1, LED1, LED2, GND

R121 1K S106 TUNER/BAND
R123 1.2K S107 STOP
R122 1.5K S109 TAPE REC
R124 2K S108 TAPE PLAY
R125 2.4K S110 MD REC
R127 3.6K S111 MD PLAY
R126 5.1K S113 MD EJECT
S112 CD PLAY

ENCO2, ENCO1, GND

WH1 WH2

(X14-) (D/6)

E101: KEY1, LED1, LED2, GND

R134 9.1K S114
R135 16K S115
R136 47K S116

R138 1K D105 RED
R137 330 D104 GRN

CD OPEN/CLOSE POWER TAPE OPEN/CLOSE

(X14-) (E/6)

S117

WH5

C110 1000P C111 1000P

ENCO2, ENCO1, GND

(X14)

Q100 : 2SD1963
Q101 : UN5112 or DTA124EUA

D102 : UDZ5.6B
D103 : UDZ4.3B
D104 : B30-2574-05
D105 : B30-2567-05

SIGNAL LINE
GND LINE
+B LINE
−B LINE

(X29-269XX-X) (A/6)

IC1 (BOTTOM VIEW): Lch VCC, NC, Lch IN, Lch NF, Lch MUTE, Lch GND, NC, Rch IN, Rch NF, Rch MUTE, R GND

CN2: Lch, A GND, Rch, HELP, +7V, +7V, +7V R, GND(+7V C), GND(+7V C), GND(+7V), M+12V, +12V, GND(+12V C), GND(+12V), MD PROTECTION, 5V, A. MUTE, HP. DET, PROTECTION, HP RELAY, SP RELAY, -16V, FL AC, FL AC

Q8 R47 330 R48 47K
Q1 R1 2.2K R5 2.2K R9 22K R7 20K
Q2 MUTING R6 2.2K R2 2.2K R10 22K R8 20K
Q7 MUTING CONT. R43 47K R45 1K R44 10K R46 4.7K R42 1.2K D4 R41 560
R3 1K R4 1K R12 1K
C1 2.2u50 C2 2.2u50 C3 100P C4 100P C5 10u16 C6 10u16 C7 560P C8 560P C9 10P C10 10P C23 33P C24 33P C31 10u25 C33 47u25
R15 390 R16 390 R13 20K R14 20K

ON: 4.2V OFF: -2.8V
ON: 4.3V OFF: 4.3V

D6 D5 Q13 R58 3.3K 1/4W R64 100K D7 R50 1.5K

D23 D24 C79 100u25 D22 D21 R67 2.2K 1/4W C78 220u35 Q21 -16V AVR
D44 R66 1 1/4W
D13 D14 Q10 +7 AVR Q9 R63 1K C80 47u25 D43

11.9V -22.5V 21.5V 7.6V -16.4V -16.0V 23.2V 5.0V 0V

IC2: GND, OUT, IN; C84 1000P; +12V AVR

WH1: GND, OUT, IN

(X29-) (F/6)

(X29)

IC1 : LM4766T
IC2 : TA7812S
IC91 : XC62HR5102P
IC92 : NJM2930F05

Q1,2 : 2SC2878(B)
Q3-5,11,12,91 : 2SC2362(G,H)
Q7 : 2SA933AS(Q,R)
Q8,13,92 : 2SA1016(G,H)
Q9 : 2SC4081(R,S) or 2SC4116(Y,GR)
Q10 : 2SD2061 or 2SD2021
Q21 : 2SB1640

D1 : D3SBA20F03
D2 : D2SBA20F03
D3 : D4SBL20UF03
D4 : RD3.9ES(B2) or MTZJ3.9(B)
D5 : RD5.1ES(B2) or MTZJ5.1(B)
D6,7,9-16,90,92-99 : MA111
D8 : 1SS133 or HSS104A
D21,23 : RD10ES(B2) or MTZJ10(B)
D22 : RD6.8ES(B2) or MTZJ6.8(B)
D24 : RD8.2ES(B2) or MTZJ8.2(B)
D44 : DSK10B-AT
D43 : RD9.1ES(B2) or MTZJ9.1(B)
D91 : S1ZB20(4072)

AY AZ BA BB BC BD BE BF BG BH

1 2 3 4 5 6 7

X29-C/6 -CN114 4/5 G
X29-C/6 -E102 4/5 H
X29-C/6 -CN113 4/5 I
X29-E/6 -CN118 4/5 J
X29-E/6 -CN119 4/5 K

(X14-714X-XX) (B/6)

J
CN101 VREF uGND LCD SDA LCD SCL LCD CS LCD RS
6 5 4 3 2 1 4 5 6 7
4.8V

K
CN100 LCD VDD (+5V) LCD GND KEY2 D IN -16V FL AC FL AC
1 2 3 4 5 6 7
5.1V

+5V
+B
-16V

Q101 -16.0V
R109 13K R108 6.8K R112 220
R110 13K Q100 R111 220
Q100 BACK LIGHT DIMMER CONT.
C103 1
C102 1

ED100 (B38-0233-08)

ED101 (BL-150NK)

RANDOM REPEAT ALL PGM RDS EON TP TA NEWS VCD PBC
CD MD MUTE SLEEP PROG. 1 2 O.T.T. A.P.S. EX.BASS
O.T.E. TAPE EQ. AUTO TUNED LOUD
TAPE REC MD REC ST
TAPE TUNER

IC
16 60
7.3K 7.3K 7.3K 7.3K
1 V5
2 VDD
3 VSS
4 SDA
5 SCL
6 CS
7 RS

D103
R113 100
C101 1
C106 47P C105 47P C104 47P C114 0.01

ED101 FL BACK LIGHT
O 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53

R101 10K R102 1K R103 1.2K R104 1.5K R105 2.0K R106 2.4K
S100 SET/DEMO S101 MENU S102 SKIP UP S103 SKIP DOWN S104 SOUND S105 AUX

X29-C/6 -CN117 4/5

F

(X14-) (C/6)

CN102 ENCO1 LED1 ENCO2 LED2 KEY1 REM NC VREF uGND
1 2 3 4 5 6 7 8 9
+B

A100 GND V OUT VCC
R133 100
R120 10K
4.8V
R132 1K C100

KEY1 4
LED1 3
LED2 2
GND 1

ENCO2 3
ENCO1 2
GND 1

R121 1K R123 1.2K R122 1.5K R124 2K R125 2.4K R127 3.6K R126 5.1K
S106 TUNER/ BAND S107 STOP TAPE REC S109 TAPE PLAY S108 MD REC S110 MD PLAY S111 MD EJECT S113 CD PLAY S112

WH1 WH2

(X14-) (D/6)

E101
KEY1 4
LED1 3
LED2 2
GND 1

R134 9.1K R135 16K R136 47K
R138 1K R137 330
RED D105 GRN D104
S114 CD OPEN/CLOSE S115 POWER S116 TAPE OPEN/CLOSE

(X14-) (E/6)

S117
C110 1000P C111 1000P
WH5
ENCO2 3
ENCO1 2
GND 1

(X14)

Q100 : 2SD1963
Q101 : UN5112 or DTA124EUA

D102 : UDZ5.6B
D103 : UDZ4.3B
D104 : B30-2574-05
D105 : B30-2567-05

SIGNAL LINE
GND LINE
+B LINE
−B LINE

(X29-269XX-X) (A/6)

⚠ IC1 (BOTTOM VIEW)
Lch VCC NC Lch IN Lch NF Lch MUTE Lch GND NC Rch IN Rch NF Rch MUTE R GND
15 14 13 12 11 10 9 8 7 6 5
+B 23.2V
C23 33P C24 33P

-16V
R47 330 Q8
R48 47K
C33 47u25
R1 2.2K C1 2.2u50 R3 1K
R15 390 C9 10P R13 20K
C10 10P R14 20K
R16 390
C7 560P C8 560P C6 10u16 C5 10u16
R9 22K R5 2.2K Q1 R7 20K C3 1000P
R10 22K MUTING R6 2.2K Q2 R8 20K C4 1000P
R2 2.2K C2 2.2u50 R4 1K
R12 1K

R43 47K ON: 4.2V OFF: -2.8V
R45 1K MUTING CONT. Q7 ON: 4.3V OFF: 4.3V
C31 10u25 R44 10K R46 4.7K R42 1.2K D4 R41 560
D6 23.2V
R58 3.3K 1/4W D5 5.0V Q13 5.0V
0V
D7
R50 1.5K
D23 C30 10u50 D22 D21
D24 -16.4V R67 2K 1/4W C78 220u35
R64 100K
⚠ D44 ⚠ R66 1 1/4W
⚠ Q21 -16V AVR -22.5V 21.5V

CN2
Lch 1
A GND 2
Rch 3
HELP 4
+7V 5 +7V
+7V 6 +7V 7.6V
+7V R 7
GND(+7V C) 8
GND(+7V C) 9
GND(+7V) 10
M+12V 11 +12V
+12V 12 +12V 11.9V
GND(+12V C) 13
GND(+12V) 14
MD PROTECTION 15
5V 16
A. MUTE 17
HP. DET 18
PROTECTION 19
HP RELAY 20
SP RELAY 21
-16V 22 -16V
FL AC 23
FL AC 24

D13 D14 7.6V ⚠ Q10 +7 AVR -16.0V +7V
Q9 R63 1K C80 47u25 D43 +12V +B

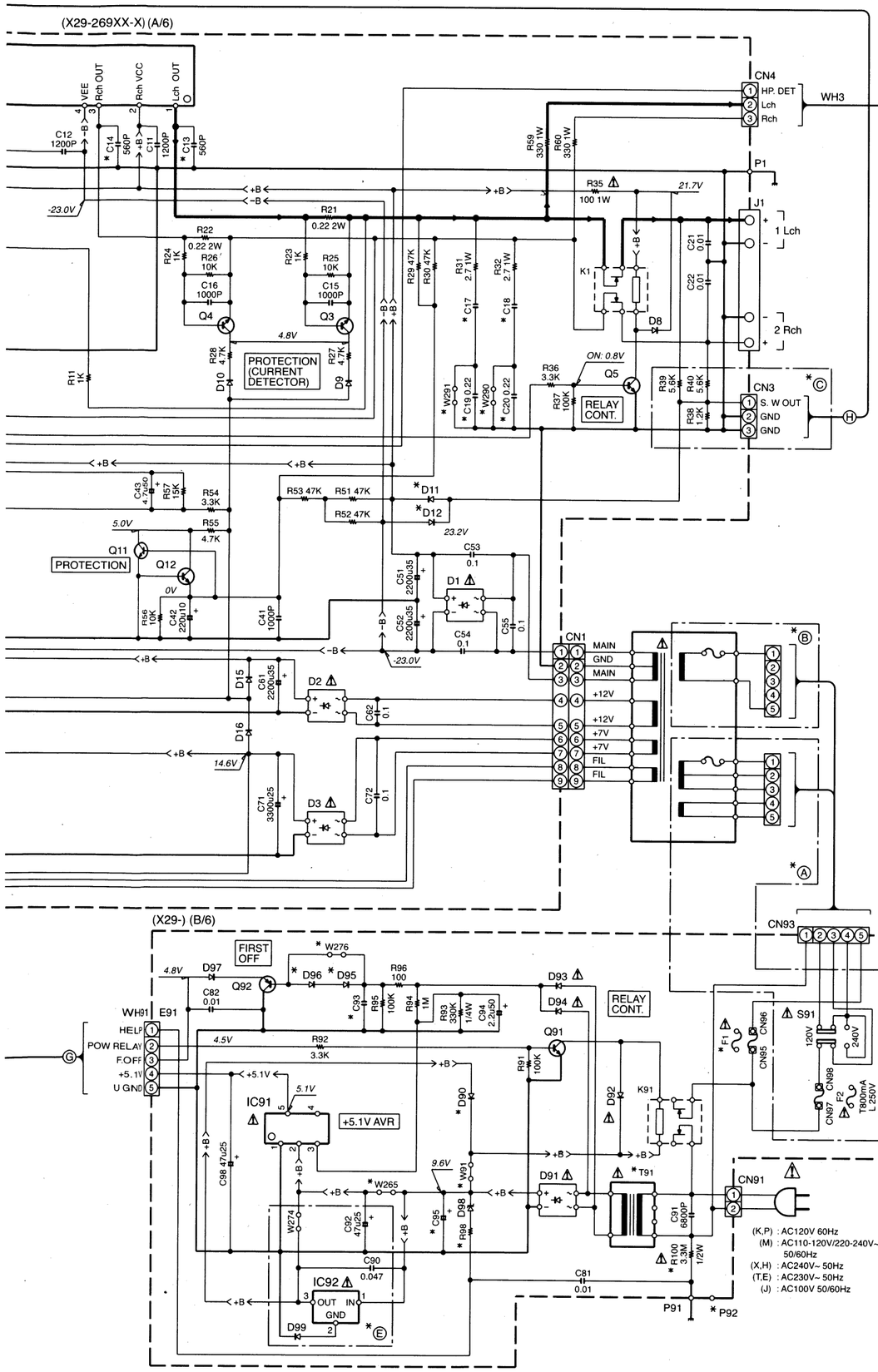
WH1 3 2 1
(X29-) (F/6)
GND OUT IN
+12V C75 0.047 11.9V 21.5V
IC2 ⚠ 3 OUT IN 1 GND 2
C64 1000P
+12V AVR

(X29)

IC1 : LM4766T
IC2 : TA7812S
IC91 : XC62HR5102P
IC92 : NJM2930F05

Q1,2 : 2SC2878(B)
Q3-5,11,12,91 : 2SC2362(G,H)
Q7 : 2SA933AS(Q,R)
Q8,13,92 : 2SA1016(G,H)
Q9 : 2SC4081(R,S) or 2SC4116(Y,GR)
Q10 : 2SD2061 or 2SD2021
Q21 : 2SB1640

D1 : D3SBA20F03
D2 : D2SBA20F03
D3 : D4SBL20UF03
D4 : RD3.9ES(B2) or MTZJ3.9(B)
D5 : RD5.1ES(B2) or MTZJ5.1(B)
D6,7,9-16,90,92-99 : MA111
D8 : 1SS133 or HSS104A
D21,23 : RD10ES(B2) or MTZJ10(B)
D22 : RD6.8ES(B2) or MTZJ6.8(B)
D24 : RD8.2ES(B2) or MTZJ8.2(B)
D44 : DSK10B-AT
D43 : RD9.1ES(B2) or MTZJ9.1(B)
D91 : S1ZB20(4072)



RXD-SH3MD-L/SH3MD-S/SH3MD-H/SH3MD-LS/SH3MD-W/SH3MD-D/SH3MD-Y (X29-2690-00)

DESTINATION		UNIT No.	Ⓐ Ⓔ	Ⓑ Ⓒ	W91,265, 290,291	W276	IC92	P92	D11,12, 95,96	D90	R98	R100	C13,14, 19,20	C17,18, 93	C95	F1	F2	T91
COUNTRY	ABB.																	
JAPAN	J,J1,J2	0-00	NO	YES	YES	NO	NO	YES	YES	NO	100 1W	NO	NO	0.1	3300u16	1.6A 125V	NO	L07-2758-05

RXD-M32MD-S/M32MD-Y/M32MD-LS/M32MD-L (X29-269X-XX)

DESTINATION		UNIT No.	Ⓐ Ⓔ	Ⓑ	Ⓒ	W91, 265	W276	W290, 291	IC92	P92	D11,12	D90	D95,96	R98	R100	C13, 14	C17-20	C93	C95	F1	F2	T91
COUNTRY	ABB.																					
GENERAL MARKET	M,M1	0-21	YES	NO		NO	YES		YES	NO		YES	NO	56 1W				0.18	3300u25		T800mA L 250V	
AUSTRALIA	X	0-71	NO	YES	NO	YES	NO	NO	NO	YES	NO	NO	YES	100 1W	NO	560P	0.22	0.1	3300u16	T800mA L 250V	NO	L07-2897-08
U.K.	T	2-71																				
EUROPE	E																					
KOREA	H,H1																					

RXD-M32-S/M32-LS/M32-L/M32-H/M32-Y/M32-W (X29-269X-XX)

DESTINATION		UNIT No.	Ⓐ Ⓔ	Ⓑ	Ⓒ	W91, 265	W276	W290, 291	IC92	P92	D11,12	D90	D95,96	R98	R100	C13, 14	C17, 18	C19, 20	C93	C95	F1	F2	T91
COUNTRY	ABB.																						
U.S.A.	K	0-11	NO	YES		YES	NO	YES	NO	YES		NO	YES	100 1W	YES	NO	0.1	NO	0.1	3300u16	1.6A 125V	NO	L07-2758-05
CANADA	P																						
GENERAL MARKET	M,M1	0-22	YES	NO		NO	YES		YES	NO		YES	NO	56 1W					0.18	3300u25		T800mA L 250V	
AUSTRALIA	X	0-72	NO	YES	NO	YES	NO	NO	NO	YES	NO	NO	YES	100 1W	NO	560P	0.22	0.22	0.1	3300u16	T800mA L 250V	NO	L07-2897-08
U.K.	T,T1	2-72																					
EUROPE	E,E1																						
KOREA	H																						

RXD-M32E-L/M32E-H/M32E-S/M32E-W/M32E-Y (X29-2692-72)

DESTINATION		UNIT No.	Ⓐ Ⓒ Ⓔ	Ⓑ	W91, 265	W276, 290,291	IC92	P92	D11, 12,90	D95,96	R98	R100	C13, 14	C17-20	C93	C95	F1	F2	T91
COUNTRY	ABB.																		
EUROPE	E2,E3	2-72	NO	YES	YES	NO	NO	YES	NO	YES	100 1W	NO	560P	0.22	0.1	3300u16	T800mA L 250V	NO	L07-2897-08

CAUTION: For continued safety, replace safety critical components only with manufacturer's recommended parts (refer to parts list). ⚠ indicates safety critical components. For continued protection against risk of fire, replace only with same type and rating fuse(s). To reduce the risk of electric shock, leakage-current or resistance measurements shall be carried out (exposed parts are acceptably insulated from the supply circuit) before the appliance is returned to the customer.

The DC voltage is an actual reading measured with a high impedance type voltmeter with no signal input. The measurement value may vary depending on the measuring instruments used or on the product.

(K,P) : AC120V 60Hz
(M) : AC110-120V/220-240V~ 50/60Hz
(X,H) : AC240V~ 50Hz
(T,E) : AC230V~ 50Hz
(J) : AC100V 50/60Hz

RXD-SH3MD-L/SH3MD-S/SH3MD-D/SH3MD-H/SH3MD-Y/SH3MD-LS/SH3MD-W (5/5)
RXD-M32MD-S/M32MD-Y/M32MD-LS/M32MD-L (5/5)
RXD-M32-S/M32-LS/M32-L/M32-Y/M32-H/M32-W (5/5)
RXD-M32E-L/M32E-Y/M32E-H/M32E-S/M32E-W (5/5)

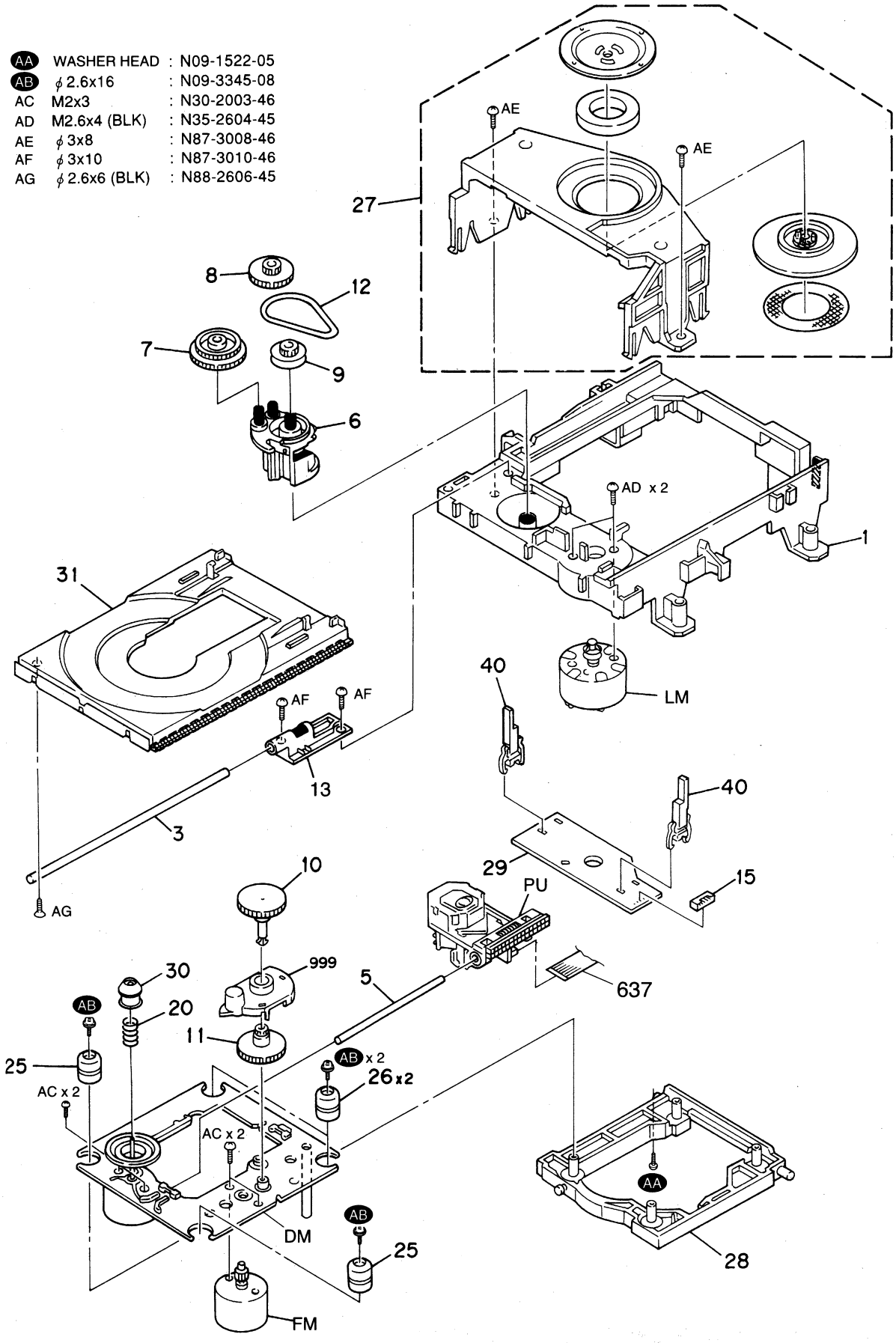
Y39-5350-10

RXD-M32

KENWOOD

EXPLODED VIEW (CD MECHANISM)

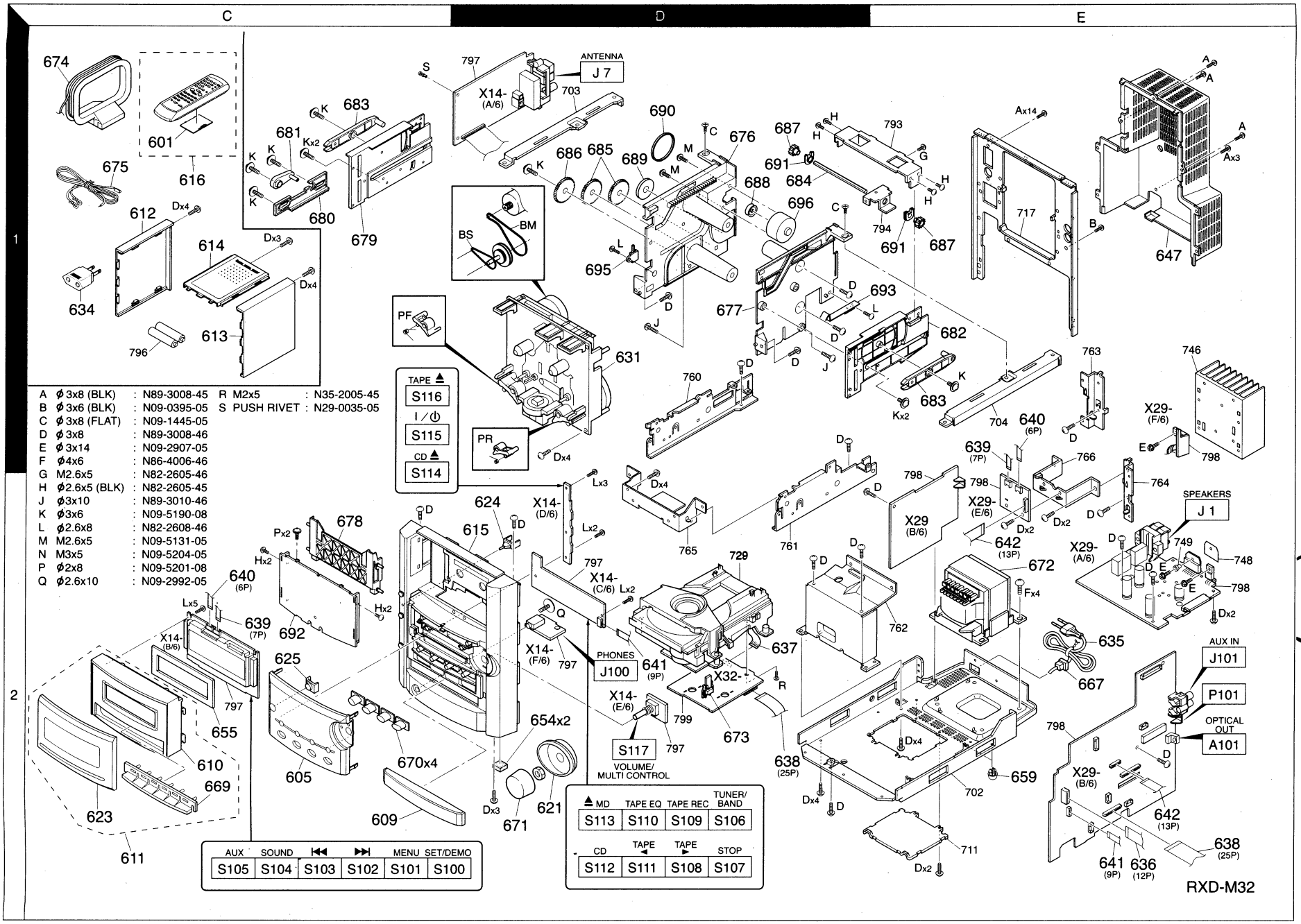
AA	WASHER HEAD	: N09-1522-05
AB	φ2.6x16	: N09-3345-08
AC	M2x3	: N30-2003-46
AD	M2.6x4 (BLK)	: N35-2604-45
AE	φ3x8	: N87-3008-46
AF	φ3x10	: N87-3010-46
AG	φ2.6x6 (BLK)	: N88-2606-45



Parts with exploded numbers larger than 700 are not supplied.

RXD-M32

EXPLODED VIEW (UNIT)



Parts with exploded numbers larger than 700 are not supplied.

✻ New Parts
Parts without **Parts No.** are not supplied.
Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.
Teile ohne **Parts No.** werden nicht geliefert.

❶

Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
			RXD-M32			
601	1C		A09-1161-08	BATTERY COVER SURVICE		
605	2C	✻	A21-3845-08	DRESSING PANEL CENTOR	KPMX	
605	2C	✻	A21-3847-08	DRESSING PANEL CENTOR	TEE2H	
609	2C	✻	A29-1099-08	PANEL CD		
610	2C	✻	A29-1101-08	PANEL LID		
611	2C	✻	A29-1121-08	PANEL ASSY LID		
612	1C	✻	A50-1354-08	SIDE PLATE L,BLUE	MXH	L
612	1C	✻	A50-1354-08	SIDE PLATE L,BLUE	TEE2	L
612	1C	✻	A50-1355-08	SIDE PLATE L,SILVER	KPMXH	S
612	1C	✻	A50-1355-08	SIDE PLATE L,SILVER	TEE2	S
612	1C	✻	A50-1357-08	SIDE PLATE L,GRAY-S	MXH	H
612	1C	✻	A50-1357-08	SIDE PLATE L,GRAY-S	TEE2	H
612	1C	✻	A50-1358-08	SIDE PLATE L,YELLOW-S	E2	Y
612	1C	✻	A50-1358-08	SIDE PLATE L,YELLOW-S	M1T1E1	Y
612	1C	✻	A50-1359-08	SIDE PLATE L,BLUE-S	KP	LS
612	1C	✻	A50-1372-08	SIDE PLATE L,WHITE-S	EE2	W
613	1C	✻	A50-1361-08	SIDE PLATE R,BLUE	MXH	L
613	1C	✻	A50-1361-08	SIDE PLATE R,BLUE	TEE2	L
613	1C	✻	A50-1362-08	SIDE PLATE R,SILVER	EE2	S
613	1C	✻	A50-1362-08	SIDE PLATE R,SILVER	KPMXH	S
613	1C	✻	A50-1364-08	SIDE PLATE R,GRAY-S	MXH	H
613	1C	✻	A50-1364-08	SIDE PLATE R,GRAY-S	TEE2	H
613	1C	✻	A50-1365-08	SIDE PLATE R,YELLOW-S	E2	Y
613	1C	✻	A50-1365-08	SIDE PLATE R,YELLOW-S	M1T1E1	Y
613	1C	✻	A50-1366-08	SIDE PLATE R,BLUE-S	KP	LS
613	1C	✻	A50-1373-08	SIDE PLATE R,WHITE-S	EE2	W
614	1C	✻	A52-0387-08	TOP PLATE		
615	2D	✻	A60-1916-08	PANEL ASSY BLUE	MXHTEE2	L
615	2D	✻	A60-1923-08	PANEL ASSY BLUE-S	KP	LS
615	2D	✻	A60-1919-08	PANEL ASSY GRAY-S	MXHTEE2	H
615	2D	✻	A60-1924-08	PANEL ASSY SILVER	KP	S
615	2D	✻	A60-1917-08	PANEL ASSY SILVER	MXHTEE2	S
615	2D	✻	A60-1922-08	PANEL ASSY WHITE-S	EE2	W
615	2D	✻	A60-1920-08	PANEL ASSY YELLOW-S	T1E1M1E3	Y
616	1C	✻	A70-1380-08	REMOTE CONTROL ASSY 38,BLUE	KP	LS
616	1C	✻	A70-1380-08	REMOTE CONTROL ASSY 38,BLUE	KPMX	L
616	1C	✻	A70-1381-08	REMOTE CONTROL ASSY 46,BLUE	HTEE2	L
616	1C	✻	A70-1394-08	REMOTE CONTROL ASSY 38,WHITE	KPX	S
616	1C	✻	A70-1395-08	REMOTE CONTROL ASSY 38,SILVER	M	S
616	1C	✻	A70-1395-08	REMOTE CONTROL ASSY 38,SILVER	MX	H
616	1C	✻	A70-1396-08	REMOTE CONTROL ASSY 46,YELLOW	T1E1E2	Y
616	1C	✻	A70-1397-08	REMOTE CONTROL ASSY 46,SILVER	EE2	W
616	1C	✻	A70-1397-08	REMOTE CONTROL ASSY 46,SILVER	HTEE2	S
616	1C	✻	A70-1397-08	REMOTE CONTROL ASSY 46,SILVER	HTEE2	H
616	1C	✻	A70-1398-08	REMOTE CONTROL ASSY38,YELLOW-S	M1	Y
621	2D	✻	B07-2517-08	ESCUTCHEON		
623	2C	✻	B10-3591-08	FRONT GLASS DECK		
624	2D	✻	B12-0396-08	INDICATOR POWER		
625	2C	✻	B12-0397-08	INDICATOR REMOCON		
-			B46-0096-53	WARRANTY CARD	X	
-			B46-0310-03	WARRANTY CARD	EE2	
-			B46-0328-03	WARRANTY CARD	K	
-			B46-0347-03	WARRANTY CARD	P	
-			B46-0350-00	QUESTIONAIRE CARD	T	

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Remarks: Refer to page2 and 18.

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❷

Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
-			B58-0964-13	CAUTION CARD	K	
-			B58-0965-13	CAUTION CARD	XT	
-			B58-0966-13	CAUTION CARD	MEE2	
-			B58-0967-03	CAUTION CARD	P	
-			B58-1674-03	CAUTION CARD	K	
-		✻	B60-4726-08	INSTRUCTION MANUAL (EN)	E2	
-		✻	B60-4726-08	INSTRUCTION MANUAL (EN)	KPMXT	
-		✻	B60-4727-08	INSTRUCTION MANUAL (TC)	M	
-		✻	B60-4728-08	INSTRUCTION MANUAL (FR)	EP	
-		✻	B60-4729-08	INSTRUCTION MANUAL (GE)	E	
-		✻	B60-4730-08	INSTRUCTION MANUAL (NE)	E	
-		✻	B60-4731-08	INSTRUCTION MANUAL (IT)	E	
-		✻	B60-4732-08	INSTRUCTION MANUAL (ES)	E	
-		✻	B60-4732-08	INSTRUCTION MANUAL (ES)	M	
-		✻	B60-4772-08	INSTRUCTION MANUAL (PL)	E2	
-		✻	B60-4773-08	INSTRUCTION MANUAL (HU)	E2	
-		✻	B60-4774-08	INSTRUCTION MANUAL (CZ)	E2	
-		✻	B60-4775-08	INSTRUCTION MANUAL (RU)	E2	
-		✻	B60-4818-08	INSTRUCTION MANUAL (ARABIC)	M	
631	1D	✻	D40-1681-05	MECHANISM ASSY DECK,VOLTEX		
BM	1D		D16-0741-08	BELT(MAIN)		
BS	1D		D16-0705-08	BELT(SUB)		
PF	1C		D14-0380-08	PINCH ROLLER(FWD)		
PR	1D		D14-0381-08	PINCH ROLLER(RVS)		
⚠ 634	1C		E03-0115-05	AC PLUG ADAPTER	M	
⚠ 635	2E		E30-2592-15	AC CORD	MEE2	
⚠ 635	2E		E30-2717-05	AC CORD	X	
⚠ 635	2E		E30-2721-05	AC CORD	T	
⚠ 635	2E		E30-2845-05	AC CORD	H	
⚠ 635	2E		E30-2924-05	AC CORD	KP	
636	2E	✻	E35-2576-08	FLAT CABLE DECK12PFFC		
637	2D	✻	E35-2578-08	FLAT CABLE CD16PFFC		
638	2D,2E	✻	E35-2579-08	FLAT CABLE CD25PFFC		
639	2C,1E	✻	E35-2581-08	FLAT CABLE LCD7PFFC/7P		
640	2C,1E	✻	E35-2582-08	FLAT CABLE LCD7PFFC/6P		
641	2D,2E	✻	E35-2583-08	FLAT CABLE X14-X29,9P		
642	2E	✻	E35-2637-08	FLAT CABLE SHIELD/FFC		
-		✻	E35-2577-08	WIRING HARNESS DECK HEADLEAD		
647	1E	✻	F07-1704-08	COVER	KPX	
647	1E	✻	F07-1705-08	COVER	M	
-		✻	F29-0127-08	INSULATING TUBE(AC CORD)		
654	2D	✻	G11-2342-08	CUSHION		
655	2C	✻	G11-2734-08	SOFT TAPE FORLCD		
-		✻	H10-7669-08	POLYSTYRENE FOAMED FIXTURE L		
-		✻	H10-7670-08	POLYSTYRENE FOAMED FIXTURE R		
-			H25-0232-04	PROTECTION BAG ACCESSORY	MXHEE2	
-			H25-0651-04	PROTECTION BAG ACCESORY	T	
-			H25-0661-04	PROTECTION BAG SET	M	
-			H25-1516-04	PROTECTION BAG SET	EE2	
-			H25-1516-04	PROTECTION BAG SET	KPXH	
-		✻	H50-3691-08	ITEM CARTON CASE GLAY-S	KP	S
-		✻	H50-3691-08	ITEM CARTON CASE GLAY-S	X	H
-		✻	H50-3740-08	ITEM CARTON CASE GLAY-S,M	MH	H

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❸

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-		✻	H50-3741-08	ITEM CARTON CASE BLUE-S	KP	LS
-		✻	H50-3742-08	ITEM CARTON CASE YELLOW	M1	Y
-		✻	H50-3743-08	ITEM CARTON CASE BLUE	X	L
-		✻	H50-3744-08	ITEM CARTON CASE BLUE,M	H	S
-		✻	H50-3744-08	ITEM CARTON CASE BLUE,M	MH	L
-		✻	H50-3745-08	ITEM CARTON CASE BLUE	TE	L
-		✻	H50-3746-08	ITEM CARTON CASE YELLOW-S	T1E1	Y
-		✻	H50-3747-08	ITEM CARTON CASE BLUE,M	TE	H
-		✻	H50-3794-08	ITEM CARTON CASE SILVER	X	S
-		✻	H50-3839-08	ITEM CARTON CASE BLUE	M	S
-		✻	H50-3840-08	ITEM CARTON CASE SILVER	TE	S
-		✻	H50-3841-08	ITEM CARTON CASE WHITE^S	E	W
-		✻	H50-3847-08	ITEM CARTON CASE BLUE	E2	L
-		✻	H50-3848-08	ITEM CARTON CASE YELLOW-S	E2	Y
-		✻	H50-3849-08	ITEM CARTON CASE GLAY-S	E2	H
-		✻	H50-3851-08	ITEM CARTON CASE SILVER	E2	S
-		✻	H50-3852-08	ITEM CARTON CASE WHITE-S	E2	W
659	2E		J02-0370-05	FOOT		
⚠ 667	2E		J42-0083-05	POWER CORD BUSHING		
-			J61-0307-05	WIRE BAND		
669	2C	✻	K29-7780-08	KNOB (LID)		
670	2C	✻	K29-7786-08	KNOB PPB5-6		S
670	2C	✻	K29-7786-08	KNOB PPB5-6	KP	LS
670	2C	✻	K29-7786-08	KNOB PPB5-6	MXH	L
670	2C	✻	K29-7786-08	KNOB PPB5-6	TEE2	L
670	2C	✻	K29-7787-08	KNOB PY8-2(Y)	E2	Y
670	2C	✻	K29-7787-08	KNOB PY8-2(Y)	T1E1M1	Y
670	2C	✻	K29-7788-08	KNOB PN9-1	E2	W
670	2C	✻	K29-7788-08	KNOB PN9-1	HTEE2	H
670	2C	✻	K29-7788-08	KNOB PN9-1	MX	H
671	2D	✻	K29-7789-08	KNOB		
⚠ 672	2E	✻	L07-2868-08	POWER TRANSFORMER	M	
⚠ 672	2E	✻	L07-2869-08	POWER TRANSFORMER	HTEE2	
⚠ 672	2E	✻	L07-2870-08	POWER TRANSFORMER	X	
⚠ 672	2E	✻	L07-2871-08	POWER TRANSFORMER	KP	
P		✻	N09-5201-08	TAPTITE SCREW A29(DECK)		
673	2D		S74-0065-05	LEAF SWITCH (S1)		
674	1C		T90-0852-05	LOOP ANTENNA		
675	1C	✻	T90-0861-05	LEAD WIRE ANTENNA		
676	1D	✻	A10-3515-08	CHASSIS		
677	1D	✻	A10-3516-08	CHASSIS		
678	1D	✻	A53-2194-08	CASSETTE HOLDER		
679	1D	✻	D10-3934-08	SLIDER		
680	1D	✻	D10-3935-08	SLIDER		
681	1D	✻	D10-3936-08	ARM		
682	1E	✻	D10-3937-08	SLIDER		
683	1E	✻	D10-3938-08	ARM		
684	1D	✻	D10-3940-08	ROD		
685	1D	✻	D13-1989-08	GEAR		
686	1D	✻	D13-1990-08	GEAR		
687	1E	✻	D13-1991-08	GEAR		

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❹

Ref. No	Address	New Parts	Parts No.	Description	Destination	Remarks
688	1D	✻	D15-0430-08	PULLEY		
689	1D	✻	D15-0431-08	PULLEY		
690	1D	✻	D16-0747-08	BELT		
691	1E	✻	D23-0337-08	RETAINER		
692	1D	✻	J19-6073-08	HOLDER		
693	1D	✻	G02-1712-08	FLAT SPRING		
695	1D		S64-0026-05	LEVER SWITCH		
696	1D		T42-0955-05	DC MOTOR		
D			N89-3008-46	BINDING HEAD TAPTITE SCREW		
G			N86-2605-46	BINDING HEAD TAPTITE SCREW		
H			N82-2605-45	BINDING HEAD TAPTITE SCREW		
K		✻	N09-5190-08	SET SCREW		
L			N82-2608-46	BINDING HEAD TAPTITE SCREW		
M			N09-5131-05	MACHINE SCREW		

DISPLAY UNIT (X14-714X-XX)

-		✻	B11-1509-08	COLOR FILTER	(BLUE)		KPMTEH	
-		✻	B11-1509-08	COLOR FILTER	(BLUE)		XE2	
-		✻	B11-1510-08	COLOR FILTER	(YELLOW)		E3	
-		✻	B11-1510-08	COLOR FILTER	(YELLOW)		M1E1T1	
D104		✻	B30-2574-05	LED(GRN3(80))				
D105			B30-2567-05	LED(RED(80) HI-BR)				
ED100		✻	B38-0233-08	LCD DISPLAY ASSY				
C1			CK73FB1H223K	CHIP C	0.022UF	K		
C2			CK73FB1H103K	CHIP C	0.010UF	K	EE1TT1	
C2			CK73FB1H103K	CHIP C	0.010UF	K	HE2E3	
C3			CK73FB1H103K	CHIP C	0.010UF	K		
C5 ,6			CK73FB1H103K	CHIP C	0.010UF	K		
C7			CE04LW1C470M	ELECTRO	47UF	16WV		
C10			CE04LW1C470M	ELECTRO	47UF	16WV		
C11 ,12			CK73FB1H473K	CHIP C	0.047UF	K		
C14			CE04LW1C100M	ELECTRO	10UF	16WV		
C15			CE04LW1H010M	ELECTRO	1.0UF	50WV		
C16			CE04RW1HR47M	ELECTRO	0.47UF	50WV		
C17			CE04LW1H010M	ELECTRO	1.0UF	50WV		
C18			CC73FCH1H470J	CHIP C	47PF	J		
C19			CE04RW1A100M	ELECTRO	10UF	10WV		
C20			CK73FB1H473K	CHIP C	0.047UF	K		
C21			CE04RW1V3R3M	ELECTRO	3.3UF	35WV		
C22			CK73FB1H473K	CHIP C	0.047UF	K		
C23			CE04LW1C100M	ELECTRO	10UF	16WV		
C24			CK73FB1H331K	CHIP C	330PF	K		
C25			CC73FCH1H181J	CHIP C	180PF	J	EE1TT1	
C25			CC73FCH1H181J	CHIP C	180PF	J	HE2E3	
C25			CC73FCH1H471J	CHIP C	470PF	J	KPMM1X	
C26			CK73FB1H183K	CHIP C	0.018UF	K	EE1TT1	
C26			CK73FB1H183K	CHIP C	0.018UF	K	HE2E3	
C26			CK73FB1H223K	CHIP C	0.022UF	K	KPMM1X	
C27			CE04HW1E4R7M	NP-ELEC	4.7UF	25WV		
C28 ,29			CE04LW1H2R2M	ELECTRO	2.2UF	50WV		
C30 ,31			CK73FB1H223K	CHIP C	0.022UF	K	E1TT1H	
C30 ,31			CK73FB1H223K	CHIP C	0.022UF	K	E2E3	
C30 ,31			CK73FB1H223K	CHIP C	0.022UF	K	MM1XE	
C30 ,31			CK73FB1H333K	CHIP C	0.033UF	K	KP	
C32			CE04LW1V4R7M	ELECTRO	4.7UF	35WV		

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C33 ,34			CK73FB1H103K	CHIP C	0.010UF	K	MM1	
C35			CK73FB1H332K	CHIP C	3300PF	K	KPMM1X	
C36			CK73FB1H103K	CHIP C	0.010UF	K		
C37 ,38			CE04LW1C100M	ELECTRO	10UF	16WV		
C41			CC73FCH1H470J	CHIP C	47PF	J		
C42			CC73FCH1H120J	CHIP C	12PF	J		
C43			CC73FCH1H100D	CHIP C	10PF	D		
C44			CK73FB1H471K	CHIP C	470PF	K		
C45			CC73FCH1H220J	CHIP C	22PF	J		
C46			CE04LW1C100M	ELECTRO	10UF	16WV		
C47			CK73FB1H102K	CHIP C	1000PF	K		
C48			CE04LW1C470M	ELECTRO	47UF	16WV		
C49			CE04LW1H2R2M	ELECTRO	2.2UF	50WV		
C50			CC73FSL1H101J	CHIP C	100PF	J		
C51			CK73FB1H471K	CHIP C	470PF	K		
C52			CC73FSL1H101J	CHIP C	100PF	J		
C70 ,71			CK73FB1H682K	CHIP C	6800PF	K	EE1TT1	
C70 ,71			CK73FB1H682K	CHIP C	6800PF	K	HE2E3	
C72			CE04LW1H010M	ELECTRO	1.0UF	50WV		
C73			CE04LW1C470M	ELECTRO	47UF	16WV		
C74			CK73FB1H102K	CHIP C	1000PF	K	KP	
C75			CC73FCH1H030C	CHIP C	3.0PF	C		
C76			CC73FCH1H470J	CHIP C	47PF	J		
C78			CK73FB1H223K	CHIP C	0.022UF	K		
C79 ,80			CK73FB1H332K	CHIP C	3300PF	K	MM1X	
C79 ,80			CK73FB1H472K	CHIP C	4700PF	K	KP	
C79 ,80			CK73FB1H682K	CHIP C	6800PF	K	EE1HE2	
C79 ,80			CK73FB1H682K	CHIP C	6800PF	K	E3	
C81			CK73FF1C105Z	CHIP C	1.0UF	Z		
C82			CK73FB1H103K	CHIP C	0.010UF	K		
C83			CC73FSL1H101J	CHIP C	100PF	J	E2E3	
C83			CC73FSL1H101J	CHIP C	100PF	J	KPEE1H	
C83			CK73FB1H223K	CHIP C	0.022UF	K	MM1X	
C84 ,85			CK73FB1H223K	CHIP C	0.022UF	K		
C86			CK73FB1H471K	CHIP C	470PF	K		
C88			CK73FB1H332K	CHIP C	3300PF	K		
C89 ,90			CK73FB1H472K	CHIP C	4700PF	K	KPMM1X	
C91			CK73FF1C105Z	CHIP C	1.0UF	Z		
C100			CK73EF1C105Z	CHIP C	1.0UF	Z		
C101			CK73GB1C104K	CHIP C	0.10UF	K		
C102,103			CK73EF1C105Z	CHIP C	1.0UF	Z		
C104-106			CC73GCH1H470J	CHIP C	47PF	J		
C110,111			CK73GB1H102K	CHIP C	1000PF	K		
C112,113			CK73GB1C473K	CHIP C	0.047UF	K		
C114,115			CK73GB1H103K	CHIP C	0.010UF	K		
CN4			E40-4871-05	PIN ASSY			E3	
CN4			E40-4871-05	PIN ASSY			KPEE1T	
CN4			E40-4871-05	PIN ASSY			T1HE2	
CN100		✻	E40-8613-05	FLAT CABLE CONNECTOR				
CN101		✻	E40-8635-05	FLAT CABLE CONNECTOR				
CN102		✻	E40-8612-05	FLAT CABLE CONNECTOR				
J7			E20-0321-05	LOCK TERMINAL BOARD(2P,F)				
J7			E70-0052-05	LOCK TERMINAL BOARD				
J100			E11-0200-05	MINIATURE PHONE JACK(5P)				

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E1		✻	F10-1165-08	SHIELDING PLATE				KPMM1X	
E1		✻	F10-1166-08	SHIELDING PLATE				EE1TT1	
E1		✻	F10-1166-08	SHIELDING PLATE				HE2E3	
-		✻	G11-2733-08	SOFT TAPE (LCD)					
-		✻	J19-6072-08	HOLDER (LCD)					
-		✻	J19-6074-08	HOLDER (LCD)					
P100			J21-5845-04	MOUNTING HARDWARE					
CF1 ,2			L72-0531-05	CERAMIC FILTER				MM1X	
CF1 ,2			L72-0536-05	CERAMIC FILTER				EE1TT1	
CF1 ,2			L72-0536-05	CERAMIC FILTER				HE2E3	
CF1 ,2			L72-0596-05	CERAMIC FILTER				KP	
CF3			L72-0607-05	CERAMIC FILTER				MM1X	
L1			L39-1384-05	COMBINATION COIL					
L2			L40-1091-17	SMALL FIXED INDUCTOR(1UH)					
L3			L30-0911-05	AM IFT					
L4			L30-0933-05	FM IFT				KP	
L4			L30-0950-05	FM IFT				EE1TT1	
L4			L30-0950-05	FM IFT				HE2E3	
L5			L30-0951-05	FM IFT				EE1TT1	
L5			L30-0951-05	FM IFT				HE2E3	
L6 ,7			L79-1236-05	LC FILTER				EE1TT1	
L6 ,7			L79-1236-05	LC FILTER				HE2E3	
X1			L77-2232-05	CRYSTAL RESONATOR					
R1			RK73GB1J101J	CHIP R	100	J	1/16W		
R4			RK73GB1J681J	CHIP R	680	J	1/16W		
R5			RK73FB2A332J	CHIP R	3.3K	J	1/10W		
R6			RK73GB1J221J	CHIP R	220	J	1/16W		
R7			RK73FB2A821J	CHIP R	820	J	1/10W		
R8			RK73GB1J100J	CHIP R	10	J	1/16W	EE1TT1	
R8			RK73GB1J100J	CHIP R	10	J	1/16W	HE2E3	
R8			RK73GB1J330J	CHIP R	33	J	1/16W	KPMM1X	
R9			RK73FB2A391J	CHIP R	390	J	1/10W		
R10			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R11			RK73GB1J220J	CHIP R	22	J	1/16W	EE1TT1	
R11			RK73GB1J220J	CHIP R	22	J	1/16W	HE2E3	
R11			RK73GB1J330J	CHIP R	33	J	1/16W	KPMM1X	
R12			RK73FB2A101J	CHIP R	100	J	1/10W		
R14			RK73FB2A101J	CHIP R	100	J	1/10W	E3	
R14			RK73FB2A101J	CHIP R	100	J	1/10W	KPEE1T	
R14			RK73FB2A101J	CHIP R	100	J	1/10W	T1HE2	
R14			RK73FB2A271J	CHIP R	270	J	1/10W	MM1X	
R15			RK73GB1J333J	CHIP R	33K	J	1/16W	EE1TT1	
R15			RK73GB1J333J	CHIP R	33K	J	1/16W	HE2E3	
R15			RK73GB1J472J	CHIP R	4.7K	J	1/16W	KP	
R16			RK73GB1J220J	CHIP R	22	J	1/16W		
R17			RK73FB2A362J	CHIP R	3.6K	J	1/10W		
R18			RK73GB1J302J	CHIP R	3.0K	J	1/16W		
R19			RK73GB1J822J	CHIP R	8.2K	J	1/16W		
R20			RK73GB1J392J	CHIP R	3.9K	J	1/16W		
R23			RK73GB1J153J	CHIP R	15K	J	1/16W	EE1TT1	
R23			RK73GB1J153J	CHIP R	15K	J	1/16W	HE2E3	
R23			RK73GB1J332J	CHIP R	3.3K	J	1/16W	MM1X	
R23			RK73GB1J822J	CHIP R	8.2K	J	1/16W	KP	

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R25			RK73GB1J163J	CHIP R	16K	J	1/16W	KP	
R25			RK73GB1J183J	CHIP R	18K	J	1/16W	MM1X	
R25			RK73GB1J273J	CHIP R	27K	J	1/16W	EE1TT1	
R25			RK73GB1J273J	CHIP R	27K	J	1/16W	HE2E3	
R27 ,28			RK73GB1J432J	CHIP R	4.3K	J	1/16W	EE1TT1	
R27 ,28			RK73GB1J432J	CHIP R	4.3K	J	1/16W	HE2E3	
R27 ,28			RK73GB1J472J	CHIP R	4.7K	J	1/16W	KPMM1X	
R30			RK73GB1J561J	CHIP R	560	J	1/16W	MM1	
R31			RK73GB1J473J	CHIP R	47K	J	1/16W	MM1	
R32			RK73FB2A272J	CHIP R	2.7K	J	1/10W	KPMM1X	
R33 ,34			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
R35			RK73GB1J101J	CHIP R	100	J	1/16W	EE1TT1	
R35			RK73GB1J101J	CHIP R	100	J	1/16W	HE2E3	
R36			RK73GB1J102J	CHIP R	1.0K	J	1/16W	EE1TT1	
R36			RK73GB1J102J	CHIP R	1.0K	J	1/16W	HE2E3	
R37			RK73GB1J392J	CHIP R	3.9K	J	1/16W	EE1TT1	
R37			RK73GB1J392J	CHIP R	3.9K	J	1/16W	HE2E3	
R38			RK73GB1J102J	CHIP R	1.0K	J	1/16W	EE1TT1	
R38			RK73GB1J102J	CHIP R	1.0K	J	1/16W	HE2E3	
R39			RK73GB1J103J	CHIP R	10K	J	1/16W	EE1TT1	
R39			RK73GB1J103J	CHIP R	10K	J	1/16W	HE2E3	
R42			RK73GB1J103J	CHIP R	10K	J	1/16W		
R43			RK73GB1J221J	CHIP R	220	J	1/16W		
⚠ R44			RD14NB2E271J	RD	270	J	1/4W		
R45 -48			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
R49			RK73GB1J103J	CHIP R	10K	J	1/16W		
⚠ R50			RD14NB2E471J	RD	470	J	1/4W		
R51			RK73GB1J562J	CHIP R	5.6K	J	1/16W		
R52			RK73GB1J101J	CHIP R	100	J	1/16W		
R53			RK73GB1J222J	CHIP R	2.2K	J	1/16W		
R54			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
R55			RK73GB1J333J	CHIP R	33K	J	1/16W		
R56 ,57			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
R58			RK73FB2A123J	CHIP R	12K	J	1/10W		
R59			RK73FB2A122J	CHIP R	1.2K	J	1/10W		
R72 ,73			RK73GB1J392J	CHIP R	3.9K	J	1/16W		
R79			RK73GB1J332J	CHIP R	3.3K	J	1/16W		
R80			RK73FB2A223J	CHIP R	22K	J	1/10W	EE1TT1	
R80			RK73FB2A223J	CHIP R	22K	J	1/10W	HE2E3	
⚠ R81			RS14KB3A820J	FL-PROOF RS	82	J	1W		
R82			RK73GB1J272J	CHIP R	2.7K	J	1/16W	EE1TT1	
R82			RK73GB1J272J	CHIP R	2.7K	J	1/16W	HE2E3	
R83			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R84			RK73EB2B102J	CHIP R	1.0K	J	1/8W		
R85 -87			RK73GB1J105J	CHIP R	1.0M	J	1/16W		
R88			RK73GB1J563J	CHIP R	56K	J	1/16W		
R89			RK73GB1J333J	CHIP R	33K	J	1/16W		
R101			RK73GB1J103J	CHIP R	10K	J	1/16W		
R102			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
R103			RK73GB1J122J	CHIP R	1.2K	J	1/16W		
R104			RK73GB1J152J	CHIP R	1.5K	J	1/16W		
R105			RK73GB1J202J	CHIP R	2.0K	J	1/16W		
R106			RK73GB1J242J	CHIP R	2.4K	J	1/16W		
R108			RK73GB1J682J	CHIP R	6.8K	J	1/16W		
R109,110			RK73GB1J133J	CHIP R	13K	J	1/16W		

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R111,112			RK73GB1J221J	CHIP R	220	J	1/16W		
R113			RK73GB1J101J	CHIP R	100	J	1/16W		
R120			RK73GB1J103J	CHIP R	10K	J	1/16W		
R121			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
R122			RK73GB1J152J	CHIP R	1.5K	J	1/16W		
R123			RK73GB1J122J	CHIP R	1.2K	J	1/16W		
R124			RK73GB1J202J	CHIP R	2.0K	J	1/16W		
R125			RK73GB1J242J	CHIP R	2.4K	J	1/16W		
R126			RK73GB1J512J	CHIP R	5.1K	J	1/16W		
R127			RK73GB1J362J	CHIP R	3.6K	J	1/16W		
R132			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
R133			RK73GB1J101J	CHIP R	100	J	1/16W		
R134			RK73GB1J912J	CHIP R	9.1K	J	1/16W		
R135			RK73GB1J163J	CHIP R	16K	J	1/16W		
R136			RK73GB1J473J	CHIP R	47K	J	1/16W		
R137			RK73GB1J331J	CHIP R	330	J	1/16W		
R138			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
VR1			R32-0037-05	SEMI FIXED VARIABLE RESISTOR					
W651,652			R92-0670-05	CHIP R	0 OHM				
W654-656			R92-0670-05	CHIP R	0 OHM			M1M2	
W654,655			R92-0670-05	CHIP R	0 OHM			K1E1E2	
W654,655			R92-0670-05	CHIP R	0 OHM			X1	
W659			R92-0670-05	CHIP R	0 OHM			K1M1M2	
W659			R92-0670-05	CHIP R	0 OHM			X1	
W659,660			R92-0670-05	CHIP R	0 OHM			E1E2	
W662			R92-0670-05	CHIP R	0 OHM				
W680			R92-0679-05	CHIP R	0 OHM				
W682-685			R92-0679-05	CHIP R	0 OHM			K1M1M2	
W682-685			R92-0679-05	CHIP R	0 OHM			X1	
W684,685			R92-0679-05	CHIP R	0 OHM			E1E2	
S100-116			S70-0031-05	TACT SWITCH					
S117			T99-0602-05	ROTARY ENCODER					
D1			DA204U	DIODE					
D1			MA143A	DIODE					
D1			1SS302	DIODE					
D3			HZS8.2N(B2)	ZENER DIODE					
D3			MTZJ8.2(B)	ZENER DIODE					
D4			HZS5.1N(B2)	ZENER DIODE					
D4			MTZJ5.1(B)	ZENER DIODE					
D8			MA111	DIODE					
D11			MA111	DIODE				EE1TT1	
D11			MA111	DIODE				HE2E3	
D13			MA111	DIODE					
D102			UDZ5.6B	ZENER DIODE					
D103		✻	UDZ4.3B	ZENER DIODE					
ED101		✻	BL-150NK	FLUORESCENT INDICATOR TUBE					
IC1			LA1837	ANALOGUE IC				E3	
IC1			LA1837	ANALOGUE IC				KPEE1T	
IC1			LA1837	ANALOGUE IC				T1HE2	
IC1			LA1838	ANALOGUE IC				MM1X	
IC2			LC72131	MOS-IC					
Q1			2SC4081(R,S)	TRANSISTOR					
Q1			2SD1819A(Q,R)	TRANSISTOR					

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Q2			2SA1576A(R,S)	TRANSISTOR				
Q2			2SB1218A(Q,R)	TRANSISTOR				
Q3 ,4			2SC4081(R,S)	TRANSISTOR			MM1	
Q3 ,4			2SD1819A(Q,R)	TRANSISTOR			MM1	
Q6 ,7			2SC4081(R,S)	TRANSISTOR			EE1TT1	
Q6 ,7			2SC4081(R,S)	TRANSISTOR			HE2E3	
Q6 ,7			2SD1819A(Q,R)	TRANSISTOR			EE1TT1	
Q6 ,7			2SD1819A(Q,R)	TRANSISTOR			HE2E3	
Q14			2SA1576A(R,S)	TRANSISTOR				
Q14			2SB1218A(Q,R)	TRANSISTOR				
Q100			2SD1963	TRANSISTOR				
Q101			DTA124EUA	DIGITAL TRANSISTOR				
Q101			UN5112	DIGITAL TRANSISTOR				
A1			W02-2584-05	FM FRONT-END ASSY			EE1TT1	
A1			W02-2584-05	FM FRONT-END ASSY			HE2E3	
A1			W02-2622-05	FM FRONT-END ASSY			KPMM1X	
A100			W02-2537-05	ELECTRIC CIRCUIT MODULE				
CONTROL CIRCUIT (X29-2690-XX)								
C1 ,2			CE04KW1H2R2M	ELECTRO	2.2UF	50WV		
C3 ,4			CK73GB1H102K	CHIP C	1000PF	K		
C5 ,6			CE04KW1C100M	ELECTRO	10UF	16WV		
C7 ,8			CK73GB1H561K	CHIP C	560PF	K		
C9 ,10			CC73GCH1H100D	CHIP C	10PF	D		
C11 ,12			CK73GB1H122K	CHIP C	1200PF	K		
C13 ,14			CK73GB1H561K	CHIP C	560PF	K	E2E3	
C13 ,14			CK73GB1H561K	CHIP C	560PF	K	MM1XT	
C13 ,14			CK73GB1H561K	CHIP C	560PF	K	T1EE1H	
C15 ,16			CK73GB1H102K	CHIP C	1000PF	K		
C17 ,18			CQ93FMG1H104J	MYLAR	0.10UF	J	KP	
C17 ,18			CQ93FMG1H224J	MYLAR	0.22UF	J	E2E3	
C17 ,18			CQ93FMG1H224J	MYLAR	0.22UF	J	MM1XT	
C17 ,18			CQ93FMG1H224J	MYLAR	0.22UF	J	T1EE1H	
C19 ,20			CQ93FMG1H224J	MYLAR	0.22UF	J	E2E3	
C19 ,20			CQ93FMG1H224J	MYLAR	0.22UF	J	MM1XT	
C19 ,20			CQ93FMG1H224J	MYLAR	0.22UF	J	T1EE1H	
C21 ,22			CK73GB1H103K	CHIP C	0.010UF	K		
C23 ,24			CC73GCH1H330J	CHIP C	33PF	J		
C31			CE04HW1E100M	NP-ELEC	10UF	25WV		
C33			CE04KW1E470M	ELECTRO	47UF	25WV		
C41			CK73GB1H102K	CHIP C	1000PF	K		
C42			CE04KW1A221M	ELECTRO	220UF	10WV		
C43			CE04KW1H4R7M	ELECTRO	4.7UF	50WV		
C51 ,52		✻	C90-3928-05	ELECTRO	2200UF	35WV		
C53 -55			C91-1567-05	FILM	0.1UF	J		
C61			CE04KW1V222M	ELECTRO	2200UF	35WV		
C62			CQ93FMG1H104J	MYLAR	0.10UF	J		
C64			CK73GB1H102K	CHIP C	1000PF	K		
C71			CE04KW1E332M	ELECTRO	3300UF	25WV		
C72			CQ93FMG1H104J	MYLAR	0.10UF	J		
C75			CQ93FMG1H473J	MYLAR	0.047UF	J		
C78			CE04DW1V221M	ELECTRO	220UF	35WV		
C79			CE04KW1H100M	ELECTRO	10UF	50WV		
C80			CE04KW1E470M	ELECTRO	47UF	25WV		
C81 ,82			CK73GB1H103K	CHIP C	0.010UF	K		

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C90			CK73GB1C473K	CHIP C	0.047UF	K	MM1	
C91			C91-1488-05	MF	6800PF	250VAC		
C92			CE04KW1E470M	ELECTRO	47UF	25WV	MM1	
C93			CQ93FMG1H104J	MYLAR	0.10UF	J	EE1HE2	
C93			CQ93FMG1H104J	MYLAR	0.10UF	J	E3	
C93			CQ93FMG1H104J	MYLAR	0.10UF	J	KPXTT1	
C93			CQ93FMG1H184J	MYLAR	0.18UF	J	MM1	
C94			CE04KW1H2R2M	ELECTRO	2.2UF	50WV		
C95			CE04KW1C332M	ELECTRO	3300UF	16WV	EE1HE2	
C95			CE04KW1C332M	ELECTRO	3300UF	16WV	E3	
C95			CE04KW1C332M	ELECTRO	3300UF	16WV	KPXTT1	
C95			CE04KW1E332M	ELECTRO	3300UF	25WV	MM1	
C98			CE04KW1E470M	ELECTRO	47UF	25WV		
C101			CK73GB1H103K	CHIP C	0.010UF	K		
C102			CE04KW1H010M	ELECTRO	1.0UF	50WV		
C103			CE04KW0J331M	ELECTRO	330UF	6.3WV		
C104			CE04KW1A101M	ELECTRO	100UF	10WV		
C105			CE04KW1C471M	ELECTRO	470UF	16WV		
C106			CE04KW1V101M	ELECTRO	100UF	35WV		
C109-114			CE04KW1H3R3M	ELECTRO	3.3UF	50WV		
C115-118			CE04KW1C100M	ELECTRO	10UF	16WV		
C119,120			CK73GB1C104K	CHIP C	0.10UF	K		
C121,122			CK73FB1C154K	CHIP C	0.15UF	K		
C123,124			CK73FB1E683K	CHIP C	0.068UF	K		
C125,126			CK73GB1A154K	CHIP C	0.15UF	K		
C127,128			CK73GB1C563K	CHIP C	0.056UF	K		
C129,130			CK73GB1H122K	CHIP C	1200PF	K		
C131,132			CE04KW1H2R2M	ELECTRO	2.2UF	50WV		
C133,134			CC73GCH1H100D	CHIP C	10PF	D		
C135,136			CE04KW1H010M	ELECTRO	1.0UF	50WV		
C137-140			CC73GCH1H221J	CHIP C	220PF	J		
C149			CC73GCH1H100D	CHIP C	10PF	D		
C150			CK73GB1C104K	CHIP C	0.10UF	K		
C151			CK73GB1H102K	CHIP C	1000PF	K		
C152			CK73GB1C104K	CHIP C	0.10UF	K		
C153			CC73GCH1H220J	CHIP C	22PF	J		
C154			CC73GCH1H180J	CHIP C	18PF	J		
C155			CK73GB1H103K	CHIP C	0.010UF	K		
C156			CK73GB1C104K	CHIP C	0.10UF	K		
C157,158			CE04KW1C100M	ELECTRO	10UF	16WV		
C159,160			CK73GB1H681K	CHIP C	680PF	K		
C161-164			CC73GCH1H221J	CHIP C	220PF	J		
C165,166			CE04KW1H3R3M	ELECTRO	3.3UF	50WV		
C167,168			CK73GB1H103K	CHIP C	0.010UF	K		
C169,170			CE04KW1A221M	ELECTRO	220UF	10WV		
C171,172			CE04KW1H010M	ELECTRO	1.0UF	50WV		
C173,174			CE04KW1H3R3M	ELECTRO	3.3UF	50WV		
C175			CE04KW1A101M	ELECTRO	100UF	10WV		
⚠ C176			CE04KW1E101M	ELECTRO	100UF	25WV		
C177			CK73GB1H103K	CHIP C	0.010UF	K		
C178			CC73GCH1H080D	CHIP C	8.0PF	D		
C179,180			CK73GB1H472K	CHIP C	4700PF	K		
C181			CK73GB1H103K	CHIP C	0.010UF	K		
C182-184			CE04KW1C100M	ELECTRO	10UF	16WV		
C185			CK73FF1C105Z	CHIP C	1.0UF	Z		

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C186			CQ93HP2A103J	MYLAR	0.010UF	J		
C187			CE04KW1C220M	ELECTRO	22UF	16WV		
C205			CK73GB1C104K	CHIP C	0.10UF	K		
C206			CE04KW1A101M	ELECTRO	100UF	10WV		
C211			CK73GB1C104K	CHIP C	0.10UF	K		
C212			CE04KW1A470M	ELECTRO	47UF	10WV	HE2E3	
C212			CE04KW1A470M	ELECTRO	47UF	10WV	TT1EE1	
C213			CK73GB1H103K	CHIP C	0.010UF	K	HE2E3	
C213			CK73GB1H103K	CHIP C	0.010UF	K	TT1EE1	
C214			CC73GCH1H220J	CHIP C	22PF	J	HE2E3	
C214			CC73GCH1H220J	CHIP C	22PF	J	TT1EE1	
C215			CC73GCH1H470J	CHIP C	47PF	J	HE2E3	
C215			CC73GCH1H470J	CHIP C	47PF	J	TT1EE1	
C216			CC73GCH1H561J	CHIP C	560PF	J	HE2E3	
C216			CC73GCH1H561J	CHIP C	560PF	J	TT1EE1	
C217			CK73GB1H103K	CHIP C	0.010UF	K	HE2E3	
C217			CK73GB1H103K	CHIP C	0.010UF	K	TT1EE1	
C218			CC73GCH1H331J	CHIP C	330PF	J	HE2E3	
C218			CC73GCH1H331J	CHIP C	330PF	J	TT1EE1	
C219			CE04KW1H2R2M	ELECTRO	2.2UF	50WV	HE2E3	
C219			CE04KW1H2R2M	ELECTRO	2.2UF	50WV	TT1EE1	
C220			CC73GCH1H101J	CHIP C	100PF	J	HE2E3	
C220			CC73GCH1H101J	CHIP C	100PF	J	TT1EE1	
C222			CE04KW1A101M	ELECTRO	100UF	10WV		
C225,226			CC73GCH1H080D	CHIP C	8.0PF	D		
C231			CE04KW1C471M	ELECTRO	470UF	16WV		
C232			CC73GCH1H470J	CHIP C	47PF	J		
C234			CE04KW1C331M	ELECTRO	330UF	16WV		
C235			CE04KW1E331M	ELECTRO	330UF	25WV		
C243			CC73GCH1H220J	CHIP C	22PF	J		
C245			CK73GB1H103K	CHIP C	0.010UF	K		
C246			CK73GB1H102K	CHIP C	1000PF	K		
C247			CC73GCH1H101J	CHIP C	100PF	J		
C248			CK73GB1H102K	CHIP C	1000PF	K		
CN1			E40-5066-05	PIN ASSY				
CN2			E40-8605-05	PIN ASSY				
CN4			E40-3247-05	PIN ASSY				
CN91			E40-4245-05	PIN ASSY				
CN93			E40-4281-05	PIN ASSY				
CN101			E40-3251-05	PIN ASSY				
CN102			E40-4899-05	FLAT CABLE CONNECTOR				
CN103			E40-4874-05	PIN ASSY				
CN106			E40-3259-05	PIN ASSY				
CN108			E40-3249-05	PIN ASSY				
CN109		✻	E40-8601-05	FLAT CABLE CONNECTOR				
CN111			E40-3249-05	PIN ASSY				
CN113		✻	E40-8606-05	PIN ASSY				
CN114			E40-3249-05	PIN ASSY				
CN115,116		✻	E40-8634-05	FLAT CABLE CONNECTOR				
CN117		✻	E40-8603-05	FLAT CABLE CONNECTOR				
CN118		✻	E40-8635-05	FLAT CABLE CONNECTOR				
CN119		✻	E40-8613-05	FLAT CABLE CONNECTOR				
J1			E70-0053-05	LOCK TERMINAL BOARD				
J101			E63-0095-05	PIN JACK				

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⑫

	Ref. No	Address	New Parts	Parts No.	Description				Destination	Remarks
⚠	F1			F05-8013-05	FUSE (SEMKO)	(250V T800MAL)			E1HE2	
⚠	F1			F05-8013-05	FUSE (SEMKO)	(250V T800MAL)			E3MM1	
⚠	F1			F05-8013-05	FUSE (SEMKO)	(250V T800MAL)			XTT1E	
⚠	F1			F50-0068-05	FUSE(5X20)				KP	
⚠	F2			F05-8013-05	FUSE (SEMKO)	(250V T800MAL)			MM1	
	CN95,96			J13-0075-05	FUSE CLIP					
	CN97,98			J13-0075-05	FUSE CLIP				MM1	
	E100			J11-0809-05	WIRE CLAMPER					
	L101,102			L40-1035-29	SMALL FIXED INDUCTOR(10MH, J)					
	L103			L32-0592-05	BIAS OSCILATING COIL					
	L104			L40-1001-17	SMALL FIXED INDUCTOR(10UH,K)					
	L105,106			L92-0089-05	CHIP FERRITE					
⚠	T91			L07-2758-05	POWER TRANSFORMER				KPMM1	
⚠	T91		✻	L07-2897-08	POWER TRANSFORMER				E1E2E3	
⚠	T91		✻	L07-2897-08	POWER TRANSFORMER				XTT1HE	
	X101			L78-0294-05	RESONATOR	(10.000M)				
	X102			L77-2173-05	CRYSTAL RESONATOR(32.768KHZ)					
	X103			L77-2002-05	CRYSTAL RESONATOR(4.332MHZ)				HE2E3	
	X103			L77-2002-05	CRYSTAL RESONATOR(4.332MHZ)				TT1EE1	
	R1 ,2			RK73GB1J222J	CHIP R	2.2K	J	1/16W		
	R3 ,4			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
	R5 ,6			RK73GB1J222J	CHIP R	2.2K	J	1/16W		
	R7 ,8			RK73GB1J203J	CHIP R	20K	J	1/16W		
	R9 ,10			RK73GB1J223J	CHIP R	22K	J	1/16W		
	R11 ,12			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
	R13 ,14			RK73GB1J203J	CHIP R	20K	J	1/16W		
	R15 ,16			RK73GB1J391J	CHIP R	390	J	1/16W		
	R21 ,22			RS14KB3DR22J	FL-PROOF RS	0.22	J	2W		
	R23 ,24			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
	R25 ,26			RK73GB1J103J	CHIP R	10K	J	1/16W		
	R27 ,28			RK73GB1J472J	CHIP R	4.7K	J	1/16W		
	R29 ,30			RK73GB1J473J	CHIP R	47K	J	1/16W		
	R31 ,32			RS14KB3A2R7J	FL-PROOF RS	2.7	J	1W		
⚠	R35			RS14KB3A101J	FL-PROOF RS	100	J	1W		
	R36			RK73GB1J332J	CHIP R	3.3K	J	1/16W		
	R37			RK73GB1J104J	CHIP R	100K	J	1/16W		
	R41			RK73GB1J561J	CHIP R	560	J	1/16W		
	R42			RK73GB1J122J	CHIP R	1.2K	J	1/16W		
	R43			RK73GB1J473J	CHIP R	47K	J	1/16W		
	R44			RK73GB1J103J	CHIP R	10K	J	1/16W		
	R45			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
	R46			RK73GB1J472J	CHIP R	4.7K	J	1/16W		
	R47			RK73GB1J331J	CHIP R	330	J	1/16W		
	R48			RK73GB1J473J	CHIP R	47K	J	1/16W		
	R50			RS14KB3A152J	FL-PROOF RS	1.5K	J	1W		
	R51 -53			RK73GB1J473J	CHIP R	47K	J	1/16W		
	R54			RK73GB1J332J	CHIP R	3.3K	J	1/16W		
	R55			RK73GB1J472J	CHIP R	4.7K	J	1/16W		
	R56			RK73GB1J103J	CHIP R	10K	J	1/16W		
	R57			RK73GB1J153J	CHIP R	15K	J	1/16W		
	R59 ,60			RS14KB3A331J	FL-PROOF RS	330	J	1W		
	R63			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
	R64			RK73GB1J104J	CHIP R	100K	J	1/16W		
⚠	R66			RD14NB2E1R0J	RD	1	J	1/4W		

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⑬

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R91			RK73GB1J104J	CHIP R 100K	J	1/16W		
R92			RK73GB1J332J	CHIP R 3.3K	J	1/16W		
R94			RK73GB1J105J	CHIP R 1.0M	J	1/16W		
R95			RK73GB1J104J	CHIP R 100K	J	1/16W		
R96			RK73GB1J101J	CHIP R 100	J	1/16W		
⚠ R98			RS14KB3A101J	FL-PROOF RS 100	J	1W	EE1HE2	
⚠ R98			RS14KB3A101J	FL-PROOF RS 100	J	1W	E3	
⚠ R98			RS14KB3A101J	FL-PROOF RS 100	J	1W	KPXTT1	
⚠ R98			RS14KB3A560J	FL-PROOF RS 56	J	1W	MM1	
⚠ R100			R92-1844-05	CARBON 3.3M	J	1/2W	KP	
R101			RK73GB1J102J	CHIP R 1.0K	J	1/16W		
R102			RK73GB1J103J	CHIP R 10K	J	1/16W		
R103			RK73GB1J104J	CHIP R 100K	J	1/16W		
R104			RK73GB1J102J	CHIP R 1.0K	J	1/16W		
R105			RK73GB1J103J	CHIP R 10K	J	1/16W		
⚠ R106			RK73GB1J2R2J	CHIP R 2.2	J	1/16W		
R107,108			RK73GB1J682J	CHIP R 6.8K	J	1/16W		
R109,110			RK73GB1J103J	CHIP R 10K	J	1/16W		
R111,112			RK73GB1J102J	CHIP R 1.0K	J	1/16W		
R113,114			RK73GB1J104J	CHIP R 100K	J	1/16W		
R127			RK73GB1J102J	CHIP R 1.0K	J	1/16W		
R129			RK73GB1J222J	CHIP R 2.2K	J	1/16W		
R130			RK73GB1J133J	CHIP R 13K	J	1/16W		
R131			RK73GB1J104J	CHIP R 100K	J	1/16W		
R132			RK73FB2A475J	CHIP R 4.7M	J	1/10W		
R133,134			RK73GB1J103J	CHIP R 10K	J	1/16W		
R135,136			RK73GB1J164J	CHIP R 160K	J	1/16W		
R137-140			RK73GB1J103J	CHIP R 10K	J	1/16W		
R141,142			RK73GB1J334J	CHIP R 330K	J	1/16W		
R143,144			RK73GB1J153J	CHIP R 15K	J	1/16W		
R145,146			RK73GB1J223J	CHIP R 22K	J	1/16W		
R147,148		✻	RK73GB1J200J	CHIP R 20	J	1/16W		
R149,150			RK73GB1J222J	CHIP R 2.2K	J	1/16W		
R151,152			RK73GB1J272J	CHIP R 2.7K	J	1/16W		
R153,154			RK73GB1J682J	CHIP R 6.8K	J	1/16W		
R155			RK73GB1J912J	CHIP R 9.1K	J	1/16W		
R156			RK73GB1J392J	CHIP R 3.9K	J	1/16W		
R157			RK73GB1J223J	CHIP R 22K	J	1/16W		
R159			RK73GB1J102J	CHIP R 1.0K	J	1/16W		
⚠ R160			RD14GB2E100J	FL-PROOF RD 10	J	1/4W		
R163,164			RK73GB1J273J	CHIP R 27K	J	1/16W		
⚠ R165			RD14GB2E100J	FL-PROOF RD 10	J	1/4W		
R166			RK73GB1J103J	CHIP R 10K	J	1/16W		
R167			RK73GB1J182J	CHIP R 1.8K	J	1/16W		
R168			RK73GB1J102J	CHIP R 1.0K	J	1/16W		
R169			RK73GB1J103J	CHIP R 10K	J	1/16W		
⚠ R170			RD14GB2E100J	FL-PROOF RD 10	J	1/4W		
R171-175			RK73GB1J101J	CHIP R 100	J	1/16W		
R176-180			RK73GB1J472J	CHIP R 4.7K	J	1/16W		
R181			RK73GB1J562J	CHIP R 5.6K	J	1/16W		
R182			RK73GB1J473J	CHIP R 47K	J	1/16W		
R183			RK73GB1J272J	CHIP R 2.7K	J	1/16W		
R184			RK73GB1J473J	CHIP R 47K	J	1/16W		
R185			RK73GB1J472J	CHIP R 4.7K	J	1/16W		
R186			RK73GB1J102J	CHIP R 1.0K	J	1/16W		

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Ref. No	Address	New Parts	Parts No.	Description			Destination	Remarks
R199			RK73GB1J473J	CHIP R 47K	J	1/16W		
R204			RK73GB1J104J	CHIP R 100K	J	1/16W		
R208			RK73GB1J363J	CHIP R 36K	J	1/16W		
R209			RK73GB1J473J	CHIP R 47K	J	1/16W		
R211			RK73GB1J100J	CHIP R 10	J	1/16W		
R213			RK73GB1J222J	CHIP R 2.2K	J	1/16W	HE2E3	
R213			RK73GB1J222J	CHIP R 2.2K	J	1/16W	TT1EE1	
R214			RK73GB1J101J	CHIP R 100	J	1/16W	HE2E3	
R214			RK73GB1J101J	CHIP R 100	J	1/16W	TT1EE1	
R215			RK73GB1J473J	CHIP R 47K	J	1/16W	HE2E3	
R215			RK73GB1J473J	CHIP R 47K	J	1/16W	TT1EE1	
R216			RK73GB1J101J	CHIP R 100	J	1/16W	HE2E3	
R216			RK73GB1J101J	CHIP R 100	J	1/16W	TT1EE1	
R218,219			RK73GB1J472J	CHIP R 4.7K	J	1/16W		
R220			RK73GB1J473J	CHIP R 47K	J	1/16W		
R221			RK73GB1J102J	CHIP R 1.0K	J	1/16W		
R222,223			RK73GB1J472J	CHIP R 4.7K	J	1/16W		
R224			RK73GB1J102J	CHIP R 1.0K	J	1/16W		
R225,226			RK73GB1J473J	CHIP R 47K	J	1/16W	HE2E3	
R225,226			RK73GB1J473J	CHIP R 47K	J	1/16W	TT1EE1	
R228			RK73GB1J121J	CHIP R 120	J	1/16W		
R229-231			RK73GB1J101J	CHIP R 100	J	1/16W		
R232,233			RK73GB1J100J	CHIP R 10	J	1/16W		
R234,235			RK73GB1J101J	CHIP R 100	J	1/16W		
R237			RK73GB1J101J	CHIP R 100	J	1/16W		
R238			RK73GB1J561J	CHIP R 560	J	1/16W		
R239			RK73GB1J101J	CHIP R 100	J	1/16W		
R245			RK73GB1J101J	CHIP R 100	J	1/16W		
R247-258			RK73GB1J101J	CHIP R 100	J	1/16W		
R259			RK73GB1J332J	CHIP R 3.3K	J	1/16W		
R260			RK73GB1J101J	CHIP R 100	J	1/16W		
R261			RK73GB1J103J	CHIP R 10K	J	1/16W		
R262			RK73GB1J102J	CHIP R 1.0K	J	1/16W		
R263			RK73GB1J2R2J	CHIP R 2.2	J	1/16W		
R264			RK73GB1J101J	CHIP R 100	J	1/16W		
R266			RS14KB3A1R0J	FL-PROOF RS 1.0	J	1W		
R267			RK73GB1J473J	CHIP R 47K	J	1/16W		
R268-274			RK73GB1J101J	CHIP R 100	J	1/16W		
R276-279			RK73GB1J101J	CHIP R 100	J	1/16W		
R280-282			RK73GB1J473J	CHIP R 47K	J	1/16W		
R291			RK73GB1J104J	CHIP R 100K	J	1/16W		
R292			RK73GB1J104J	CHIP R 100K	J	1/16W	MM1	
R292			RK73GB1J123J	CHIP R 12K	J	1/16W	EE1TT1	
R292			RK73GB1J123J	CHIP R 12K	J	1/16W	HE2E3	
R292			RK73GB1J224J	CHIP R 220K	J	1/16W	KP	
R292			RK73GB1J473J	CHIP R 47K	J	1/16W	X	
R294-296			RK73GB1J103J	CHIP R 10K	J	1/16W		
R297,298			RK73GB1J153J	CHIP R 15K	J	1/16W		
R299			RK73GB1J101J	CHIP R 100	J	1/16W		
⚠ R300			RD14GB2E5R6J	FL-PROOF RD 5.6	J	1/4W		
R301,302			RK73GB1J123J	CHIP R 12K	J	1/16W		
R303			RK73GB1J102J	CHIP R 1.0K	J	1/16W		
R305,306			RK73GB1J133J	CHIP R 13K	J	1/16W		
R307,308			RK73GB1J182J	CHIP R 1.8K	J	1/16W		
VR101,102			R32-0041-05	SEMI FIXED VARIABLE RESISTOR				

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W502-504			R92-0670-05	CHIP R 0 OHM		
W508			R92-0670-05	CHIP R 0 OHM	E1E2	
W508-510			R92-0670-05	CHIP R 0 OHM	K1M1M2	
W508-510			R92-0670-05	CHIP R 0 OHM	X1X2	
W510			R92-0670-05	CHIP R 0 OHM	E1E2	
W512-517			R92-0679-05	CHIP R 0 OHM		
W518,519			R92-0670-05	CHIP R 0 OHM	K1M1M2	
W518,519			R92-0670-05	CHIP R 0 OHM	X1X2	
W519			R92-0670-05	CHIP R 0 OHM	E1E2	
W520			R92-0679-05	CHIP R 0 OHM	M1X1E1	
W522,523			R92-0679-05	CHIP R 0 OHM		
K1			S76-0076-05	MAGNETIC RELAY		
K91			S76-0099-05	MAGNETIC RELAY		
⚠ S91			S62-0001-05	SLIDE SWITCH	MM1	
⚠ D1			D3SBA20F03	DIODE		
⚠ D2			D2SBA20F03	DIODE		
⚠ D3			D4SBL20UF03	DIODE		
D4			MTZJ3.9(B)	ZENER DIODE		
D4			RD3.9ES(B2)	ZENER DIODE		
D5			MTZJ5.1(B)	ZENER DIODE		
D5			RD5.1ES(B2)	ZENER DIODE		
D6 ,7			MA111	DIODE		
D8			HSS104A	DIODE		
D8			1SS133	DIODE		
D9 ,10			MA111	DIODE		
D13 -16			MA111	DIODE		
D21			MTZJ10(B)	ZENER DIODE		
D21			RD10ES(B2)	ZENER DIODE		
D22			MTZJ6.8(B)	ZENER DIODE		
D22			RD6.8ES(B2)	ZENER DIODE		
D23			MTZJ10(B)	ZENER DIODE		
D23			RD10ES(B2)	ZENER DIODE		
D24			MTZJ8.2(B)	ZENER DIODE		
D24			RD8.2ES(B2)	ZENER DIODE		
D43		*	MTZJ9.1(B)	ZENER DIODE		
D43			RD9.1ES(B2)	ZENER DIODE		
⚠ D44		*	DSK10B-AT	DIODE		
D90			MA111	DIODE	MM1	
⚠ D91			S1ZB20(4072)	DIODE		
⚠ D92 -94			MA111	DIODE		
D95 ,96			MA111	DIODE	HE2E3	
D95 ,96			MA111	DIODE	KPXEE1	
D97 ,98			MA111	DIODE		
D99			MA111	DIODE	MM1	
D101			1SS402	DIODE		
D102			HSS104A	DIODE		
D102			1SS133	DIODE		
D103			MTZJ5.6(B)	ZENER DIODE		
D103			RD5.6ES(B2)	ZENER DIODE		
D105			MTZJ5.6(B)	ZENER DIODE		
D105			RD5.6ES(B2)	ZENER DIODE		
D106,107			HSS104A	DIODE		
D106,107			1SS133	DIODE		
D111			HSS104A	DIODE		

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D111			1SS133	DIODE		
D115			MA111	DIODE		
D116			MTZJ5.6(B)	ZENER DIODE		
D116			RD5.6ES(B2)	ZENER DIODE		
⚠ IC1		*	LM4766T	ANALOGUE IC		
⚠ IC2			TA7812S	ANALOGUE IC		
⚠ IC91			XC62HR5102P	ANALOGUE IC		
⚠ IC92		*	NJM2930F05	ANALOGUE IC	MM1	
IC101			S-80840ANY	ANALOGUE IC		
IC103			TA8409S	MOS-IC		
IC104			M30622MA-1A5FP	MI-COM IC		
IC105		*	M62498AFP	ANALOGUE IC		
IC106			HA12219NT	ANALOGUE IC		
IC107			BA3126N	ANALOGUE IC		
IC111			TA8409S	MOS-IC		
IC112			L88M33T	ANALOGUE IC		
IC114			SAA6579T/R	ANALOGUE IC	EE1TT1	
IC114			SAA6579T/R	ANALOGUE IC	HE2E3	
Q1 ,2			2SC2878(B)	TRANSISTOR		
Q3 -5		*	2SC2362(G,H)	TRANSISTOR		
Q7			2SA933AS(Q,R)	TRANSISTOR		
Q8		*	2SA1016(G,H)	TRANSISTOR		
⚠ Q9			2SC4081(R,S)	TRANSISTOR		
⚠ Q9			2SC4116(Y,GR)	TRANSISTOR		
⚠ Q10			2SD2012	TRANSISTER		
⚠ Q10			2SD2061	TRANSISTER		
Q11 ,12		*	2SC2362(G,H)	TRANSISTOR		
Q13		*	2SA1016(G,H)	TRANSISTOR		
⚠ Q21			2SB1640	TRANSISTOR		
Q91		*	2SC2362(G,H)	TRANSISTOR		
Q92		*	2SA1016(G,H)	TRANSISTOR		
Q101			2SC2458(Y,GR)	TRANSISTOR		
Q101			2SC2785(F,E)	TRANSISTOR		
Q102			2SC2003(L,K)	TRANSISTOR		
Q103			2SB764(E,F)	TRANSISTOR		
Q104			2SA1286-T11	TRANSISTOR		
Q105,106			DTC124ESA	DIGITAL TRANSISTOR		
Q105,106			UN4212	DIGITAL TRANSISTOR		
Q107			2SC2458(Y,GR)	TRANSISTOR		
Q107			2SC2785(F,E)	TRANSISTOR		
Q108			2SC4081(R,S)	TRANSISTOR		
Q108			2SC4116(Y,GR)	TRANSISTOR		
Q109			2SD863(E,F)	TRANSISTOR		
Q110			DTA124ESA	DIGITAL TRANSISTOR		
Q110			UN4112	DIGITAL TRANSISTOR		
Q111,112			DTC124ESA	DIGITAL TRANSISTOR		
Q111,112			UN4212	DIGITAL TRANSISTOR		
Q113			DTA124ESA	DIGITAL TRANSISTOR		
Q113			UN4112	DIGITAL TRANSISTOR		
Q114			DTC124ESA	DIGITAL TRANSISTOR		
Q114			UN4212	DIGITAL TRANSISTOR		
Q118			2SA1286-T11	TRANSISTOR		
Q119			DTC124ESA	DIGITAL TRANSISTOR		
Q119			UN4212	DIGITAL TRANSISTOR		
⚠ Q120			2SC3246	TRANSISTOR		

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Ref. No	Address	New Parts	Parts No.	Description				Destination	Remarks
A101			W02-1114-15	OSCILLATING MODULE					
CD PLAYER UNIT (X32-3810-01)									
C1 ,2			C92-0084-05	CHIP C	100UF		4WV		
C3			CC73GCH1H220J	CHIP C	22PF		J		
C5			C92-0084-05	CHIP C	100UF		4WV		
C6			C92-0044-05	CHIP-ELE	47UF		10WV		
C8			CK73FB1H563K	CHIP C	0.056UF		K		
C9			C92-0085-05	CHIP C	220UF		4WV		
C10			CC73GCH1H471J	CHIP C	470PF		J		
C11			CK73FB1H223K	CHIP C	0.022UF		K		
C12			CK73GB1H221K	CHIP C	220PF		K		
C13			CK73FB1C474K	CHIP C	0.47UF		K		
C14			CK73GB1H332K	CHIP C	3300PF		K		
C15			CK73GB1H103K	CHIP C	0.010UF		K		
C16			CK73GB1C473K	CHIP C	0.047UF		K		
C17			CK73GB1H152K	CHIP C	1500PF		K		
C18 ,19			CC73GCH1H150J	CHIP C	15PF		J		
C20			CK73GB1H103K	CHIP C	0.010UF		K		
C21 ,22			CC73FCH1H681J	CHIP C	680PF		J		
C23 ,24			CC73GCH1H101J	CHIP C	100PF		J		
C29			CK73GB1H221K	CHIP C	220PF		K		
C30			CK73GB1H103K	CHIP C	0.010UF		K		
C31			C92-0095-05	CHIP C	330UF		6.3WV		
C32			CC73FSL1H101J	CHIP C	100PF		J		
C33			CK73GB1H102K	CHIP C	1000PF		K		
C34			CK73GB1C104K	CHIP C	0.10UF		K		
C35			C92-0084-05	CHIP C	100UF		4WV		
C36			CK73GB1H103K	CHIP C	0.010UF		K		
C37			CC73GCH1H101J	CHIP C	100PF		J		
C38			CK73GB1H102K	CHIP C	1000PF		K		
CN1			E40-9963-05	FLAT CABLE CONNECTOR					
CN2		*	E40-8600-05	FLAT CABLE CONNECTOR					
CN3			E40-3248-05	PIN ASSY					
L1 ,2			L40-1001-31	SMALL FIXED INDUCTOR (10UH,K)					
L4			L40-1001-31	SMALL FIXED INDUCTOR (10UH,K)					
L5			L92-0308-05	FERRITE CORE					
X1		*	L77-2295-05	CRYSTAL RESONATOR (33.8668MHz)					
R1			RK73GB1J224J	CHIP R	220K	J	1/16W		
R6			RK73GB1J224J	CHIP R	220K	J	1/16W		
R7			RK73GB1J100J	CHIP R	10	J	1/16W		
R8 ,9			RK73GB1J273J	CHIP R	27K	J	1/16W		
R10			RK73GB1J622J	CHIP R	6.2K	J	1/16W		
R11 ,12			RK73GB1J101J	CHIP R	100	J	1/16W		
R13 ,14			RK73GB1J103J	CHIP R	10K	J	1/16W		
R15			RK73GB1J153J	CHIP R	15K	J	1/16W		
R16			RK73GB1J273J	CHIP R	27K	J	1/16W		
R17			RK73GB1J474J	CHIP R	470K	J	1/16W		
R18			RK73GB1J364J	CHIP R	360K	J	1/16W		
R19			RK73GB1J102J	CHIP R	1.0K	J	1/16W		
R20			RK73GB1J472J	CHIP R	4.7K	J	1/16W		
R21			RK73GB1J182J	CHIP R	1.8K	J	1/16W		
R23			RK73GB1J154J	CHIP R	150K	J	1/16W		
R25			RK73GB1J225J	CHIP R	2.2M	J	1/16W		

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R26 ,27			RK73GB1J153J	CHIP R	15K	J	1/16W		
R28			RK73GB1J104J	CHIP R	100K	J	1/16W		
R29			RK73GB1J333J	CHIP R	33K	J	1/16W		
R30			RK73GB1J104J	CHIP R	100K	J	1/16W		
R31			RK73GB1J105J	CHIP R	1.0M	J	1/16W		
R32			RK73GB1J103J	CHIP R	10K	J	1/16W		
R33 ,34			RK73GB1J332J	CHIP R	3.3K	J	1/16W		
R35			RK73GB1J472J	CHIP R	4.7K	J	1/16W		
R36			RK73GB1J511J	CHIP R	510	J	1/16W		
R40			RK73GB1J471J	CHIP R	470	J	1/16W		
R41 ,42			RK73GB1J105J	CHIP R	1.0M	J	1/16W		
R43 -48			RK73GB1J273J	CHIP R	27K	J	1/16W		
R49			RK73GB1J100J	CHIP R	10	J	1/16W		
R50			RK73GB1J473J	CHIP R	47K	J	1/16W		
R51			RK73GB1J101J	CHIP R	100	J	1/16W		
R52			RK73GB1J221J	CHIP R	220	J	1/16W		
R53			RK73GB1J101J	CHIP R	100	J	1/16W		
R54 -59			RK73GB1J221J	CHIP R	220	J	1/16W		
R60			RK73GB1J101J	CHIP R	100	J	1/16W		
R61 ,62			RK73GB1J2R2J	CHIP R	2.2	J	1/16W		
R63			RK73GB1J473J	CHIP R	47K	J	1/16W		
R65 ,66			RK73GB1J104J	CHIP R	100K	J	1/16W		
R67 ,68			RK73GB1J101J	CHIP R	100	J	1/16W		
VR1			R32-0018-05	SEMI FIXED VARIABLE RESISTOR					
D1 ,2			MA111	DIODE					
IC1			CXA1821M	ANALOGUE IC					
IC2		*	BA5974FP	ANALOGUE IC					
IC3		*	CXD3017Q	MOS-IC					
Q1			2SA1576A(R,S)	TRANSISTOR					
Q4 -6		*	2SK1580	FET					
Q4 -6			2SK1958	FET					
CD MECHANISM (D40-1571-05)									
1	2B		A10-3325-08	CHASSSIS					
3	2A		D10-3695-08	SHAFT(TABLE GUIDE)					
5	3A		D10-3696-08	SLED SHAFT					
6	1A		D12-0156-08	CAM					
7	1A		D13-1793-08	GEAR	(P)				
8	1A		D13-1794-08	GEAR	(C)				
9	1A		D13-1795-08	PULLEY	(S)				
10	2A		D13-1796-08	GEAR	(A)(S)				
11	3A		D13-1797-08	GEAR	(B)(RP)				
12	1A		D16-0713-08	BELT					
13	2A		D23-0328-08	BEARING					
15	2B		E40-8051-08	PIN CONNECTOR (PC BORD)5P					
20	3A		G01-3969-08	SPRING (S) COMPRESSION					
25	3A		J02-1179-08	PUBBER VIBRTION					
26	3A		J02-1180-08	PUBBER VIBRTION					
27	1A		J19-5768-08	HOLDER (MG)(K) ASSY					
28	2A		J19-5769-08	HOLDER (BU) ASSY					
29	2B		J70-0995-08	PC BORD LOADING					
30	3A		J90-0846-08	RING (LO)(S) CENTER					
31	2A		J99-0592-08	TABLE DISK					

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RXD-M32

PARTS LIST

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Ref. No	Add-ress	New Parts	Parts No.	Description	Desti-nation	Re-marks
AB	3A		N09-3345-08	SCREW (2.6X16)		
AF	2A		N87-3010-46	SCREW TAPPING (3X10)		
40	2B		S74-0075-08	SWITCH LEAF		
DM	3A		T42-0907-08	MOTOR CHASSIS ASSY(MB)		
FM	3A		T42-0875-08	MOTOR GEAR ASSY(MB)		
LM	2B		T42-0873-08	MOTOR ASSY LOADING		
⚠ PU	3B		T25-0061-08	PICKUP ASSY KSS-213C(R)		

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SPECIFICATIONS

Main unit

[Amplifier section]

(For U.K. and Europe)
Effective output power during STEREO operation
1 kHz, 10 % T.H.D., at 6 Ω ..... 20 W + 20 W
Rated output power during STEREO operation
1 kHz, 0.7 % T.H.D., at 6 Ω ..... 15 W + 15 W
(For U.S.A. and Canada)
Rated output power during STEREO operation

> 14 watts per channel minimum RMS, both channels driven, at 6 Ω from 90 Hz to 20 kHz with no more than 0.9 % total harmonic distortion. (FTC)

(For other countries)
Rated output power during STEREO operation
1 kHz, 10 % T.H.D., at 6 Ω ..... 20 W + 20 W
Frequency response
AUX ..... 50 Hz~50 kHz (0 dB ~ -3dB)

[Tuner section]

FM tuner section
Tuning frequency range ..... 87.5 MHz ~ 108 MHz
MW (AM) tuner section
Tuning frequency range
(For U.S.A. and Canada)
..... 530 kHz ~ 1700 kHz
(For U.K., Europe and Australia)
..... 531 kHz ~ 1,602 kHz
(For other countries)
9 kHz step ..... 531 kHz ~ 1,602 kHz
10 kHz step ..... 530 kHz ~ 1,610 kHz

[CD player section]

Laser ..... Semiconductor laser
D/A Conversion ..... 1 Bit
Wow and flutter ..... Less than unmeasurable limit

[Cassette deck section]

Track ..... 4-track, 2-channel stereo
Recording system ..... AC bias system
(Frequency: 65 kHz)
Heads
Playback / recording head 1
Erasing head 1
Motors 1
Wow and flutter ..... 0.2 % (W.R.M.S.)
Fast winding time ..... Approx. 100 seconds
(C-60 tape)

[General]

Power consumption ..... 60 W
Dimensions W : 180 mm
H : 239 mm
D : 305 mm
Weight (net) ..... 5.4 kg

Speakers

Enclosure ..... Book shelf type, magnetically shielded
Speaker configuration
Woofer ..... 100 mm, cone type
Tweeter ..... 50 mm, cone type
Impedance ..... 6 Ω
Maximum input level ..... 30 W
Dimensions W : 150 mm
H : 234 mm
D : 197 mm
Weight (net) ..... 2.4 kg(1 piece)

Notes
KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.
- Sufficient performance may not be exhibited at extremely cold locations (where water freezes).

Note:
Component and circuit are subject to modification to insure best operation under differing local conditions. This manual is based on Europe (E) standard, and provides information on regional circuit modification through use of alternate schematic diagrams, and information on regional component variations through use of parts list.

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